



FCWnx 7.7 Enterprise Edition Installation Manual



UTC Fire & Security

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Preface

Welcome to Facility Commander Wnx. This manual provides information for system administrators to set up, install, and configure a Facility Commander Wnx Enterprise system.

Throughout this manual, reference to Facility Commander Wnx is represented as “FCWnx” in text content to avoid repetition.

Conventions used in this manual

The following conventions are used in this document:

<i>Italic</i>	Emphasis of an instruction or point; special terms. Titles of books and various documents.
Monospace	Text that displays on the computer screen. Programming or coding sequences.

Safety terms and symbols

These terms may appear in this manual:

Caution: Cautions identify conditions or practices that may result in damage to the equipment or other property.

WARNING: Warnings identify conditions or practices that could result in equipment damage or serious personal injury.

Related documentation

For more information, refer to the following:

- *Facility Commander Wnx Help System.* Provides reference information, such as window and field descriptions, along with instructions for system administrator duties, such as configuring controllers.

- *Facility Commander Wnx 7.7 Upgrade Manual.* Provides instructions for upgrading your Secure Perfect or Diamond II system to Facility Commander Wnx 7.7.
- *M5PXNplus and M2000PXNplus Upgrade Instructions.* Provides instructions for upgrading to the PXNplus CPU board.
- *M3000 Installation Manual.* A guide to mounting and installing the M3000 panels and associated boards
- *Micro/5 Installation Guide.* A guide to mounting and installing the Micro/5 panels and associated boards.
- *Micro/PX-2000, PXN-2000, and M2000PXNplus Installation Manual.* This guide provides mounting and installation instructions for the PX-2000 and PXN-2000 microcontrollers.
- *DirecDoor Quick Guide.* Provides brief instructions on mounting and configuring the DirecDoor controller.
- *Diamond II User Manual.* This document provides instructions for the installation, configuration, and operation of the Diamond II software.
- *ACU Networked Intelligent Controllers Hardware Installation Manual.* Provides instructions for installation and wiring for ACU controllers and associated hardware.

These documents and others are included on the Documentation disc shipped with your Facility Commander Wnx system, in PDF format. You must have Adobe Acrobat Reader installed on your computer to view PDF documents. For your convenience, a copy of the Adobe Acrobat Reader software is included on the disc.

Chapter 1

Introduction to Facility Commander Wnx

Summary

This chapter provides a list of prerequisites for a successful Facility Commander Wnx system, as well as step-by-step instructions for installation. Follow instructions in the order presented.

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Recommended minimum requirements

Facility Commander Wnx is designed to operate on a system that meets these minimum requirements for hardware and third party software.

When configuring a database server to utilize RAID technology, we do not recommend using RAID5. Contact Technical Support for information on RAID configurations.

Hardware

The minimum hardware requirements for Server and client computers are listed below.

Server

The following are minimum hardware requirements for server computers:

- P4 2 GHz
- 2 GB RAM
- CD/DVD drive
- 10/100 Mb network card
- 1024 by 768 resolution, 16-bit color display
- 10 GB available hard drive space

Hard drive space will vary depending on your system environment. If you elect to partition your hard drive, verify that sufficient space remains in your system drive for your program files to load properly.

The following items are recommended:

- Approved modems if using dial-up controllers
- Ability for remote Internet access support

Client

The following are minimum hardware requirements for client computers:

- P4 2 GHz
- 2 GB RAM
- CD/DVD drive
- 10/100 Mb network card
- 1024 by 768 resolution, 16-bit color display

- 1 GB available hard drive space

Hard drive space will vary depending on your system environment. If you elect to partition your hard drive, verify that sufficient space remains in your system drive for your program files to load properly.

- If using Imaging, an image capture device, such as a USB or USB2.0 camera
USB cameras are available from UTC Fire & Security or for a list of approved cameras, printers, and signature pads, refer to ImageWare's web site:
<http://www.iwsinc.com>.

Note: If using the Digital Video Surveillance option, increasing the processor speed and memory may be required to increase performance in your specific system.

Software

Server and client

The following table lists the supported operating system software requirements and configurations for Facility Commander Wnx 7.7 Enterprise Edition.

Table 1: Enterprise edition software requirements

Windows Server OS	Window Client OS	Server database
Server 2003 R2, 32-bit (upgrades only)	XP Pro SP3, 32-bit Vista SP2, 32-bit Win7, 32-bit	SQL Server 2005 Express SP3, 32-bit
Server 2008 SP2, 32-bit	XP Pro SP3, 32-bit Vista SP2, 32-bit Vista SP2, 64-bit Win7, 32-bit Win7, 64-bit	SQL Server 2008 SP1, 32-bit
Server 2008 SP2, 64-bit	XP Pro SP3, 32-bit Vista SP2, 32-bit Vista SP2, 64-bit Win7, 32-bit Win7, 64-bit	SQL Server 2008 SP1, 64-bit
Server 2008 R2, 64-bit	XP Pro SP3, 32-bit Vista SP2, 32-bit Vista SP2, 64-bit Win7, 32-bit Win7, 64-bit	SQL Server 2008 SP1, 64-bit SQL Server 2008 R2

- .NET Framework 3.5 SP1

Note: If .NET Framework 3.5 is installed on your system, it must be uninstalled before you upgrade to .NET Framework 3.5 SP1.

- Windows Installer 4.5
- Recommended: Ability for remote Internet access support

Integrated video management

Due to the demanding nature of streaming video over IP, managing multiple video streams from the newly introduced support for SymSuite and VisioWave devices requires increased CPU processing power, memory, and network bandwidth. System-wide video performance is equally affected by the resolution, frame rate, and quality settings of individual video streams and should be adjusted accordingly as supported by the SymSuite and VisioWave devices.

FCWnx servers and/or client workstations used for hosting video devices or viewing multiple video streams should meet the following minimum requirements

- CPU: Dual processor/Dual core or Single processor/Quad core at 2.XX GHz or higher
- RAM: 2 GB or higher
- NIC: 1 Gb
- Video: Graphics card hardware support for DirectX 9 with Pixel Shader 3

Before you begin

If you received a Facility Commander Wnx system from UTC Fire & Security, your system was licensed according to your purchased items such as number of clients, number of readers, and number of Imaging clients.

At this time, you are ready to go to Chapter 7 “Logging on and configuring Facility Commander Wnx” on page 149.

Installation and setup outlines

Before you proceed, make sure that your peripheral system hardware (such as controllers, readers, and network lines) is installed and running.

Unless otherwise noted, details for each step can be found in the chapters that follow.

Once you have completed the installation, refer to the document, *Facility Commander Wnx 7.7 User Manual*, installed in the \UserManuals folder of the FCWnx installation folder and found on the Documentation disc shipped with your Facility Commander Wnx system for steps on setting up the application.

Upgrades

If you are upgrading from a previous version of Facility Commander Wnx software, refer to the *FCWnx 7.7 Upgrade Manual*.

If you are upgrading from Secure Perfect or Diamond II, refer to the *FCWnx 7.7 Upgrade Manual*.

Prepare and install a FCWnx Enterprise server computer

Table 2: Steps to prepare and install a Facility Commander Wnx Enterprise server computer

Task	Reference
A Check minimum hardware and software requirements.	on page 2
B Install network card.	on page 9
C Determine server type.	on page 9
D If this server is part of an existing domain, you need to add this server to the primary domain controller of that domain.	on page 10
E Install/prepare the operating system.	on page 10
F Install Microsoft SQL Server 2005 or 2008.	on page 16
G Prepare for installation.	
Install Facility Commander Wnx software.	on page 33
• Typical	on page 36
• Custom	on page 41
H License the system.	on page 107
I Configuring security settings.	on page 98
J Setting services to automatic startup	on page 99
K Log on to the server computer.	on page 154
L OPTIONAL: Set up the modems.	on page 189
M If purchased, install and set up CCTV software and hardware.	on page 195
N Add client computers, if applicable.	on page 6

Prepare and install a FCWnx client computer

Table 3: Steps to prepare a Facility Commander Wnx client computer

Task		Reference
A	Check minimum hardware and software requirements.	on page 2
B	Install network card.	on page 122
C	If this client will be part of an existing domain, you will need to add it to the primary domain controller of that domain.	on page 123
D	If using Imaging, an image capture device, such as a USB or USB2.0 camera	Refer to the instructions that came with your image capture device.
E	Prepare operating system: Windows Vista or Windows XP Professional	on page 123
F	Prepare for installation.	
	Install Facility Commander Wnx software.	on page 134
	• Typical	on page 136
	• Custom	on page 138
G	License the client computer.	on page 109
H	Configuring security settings.	on page 141
I	Set services to Automatic Startup.	on page 141

Chapter 2

Windows Server 2003/2008 Standard and Enterprise Edition Server setup

Summary

This chapter provides instructions for a sample configuration of a Windows 2003 and Windows 2008 Standard and Enterprise Edition server computer. We recommend that you review the “Preinstallation checklist” on page 8, and then review the sample configuration carefully *before* you begin the installation.

Note: If you are installing to a Cluster environment, refer to your Microsoft documentation and the Documentation disc shipped with your Facility Commander Wnx system, Installing Facility Commander Wnx in a Clustered Environment, in PDF format.

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Preinstallation checklist

To prepare your Windows 2003 or Windows 2008 server computer, refer to this checklist of reminders:

Note: If you purchased this system from UTC Fire & Security, these tasks were completed for you.

- Meet minimum recommended hardware and software requirements.
- Install the network card.
- Configure the computer for the network.
- Install Windows 2003 or Windows 2008 Server.
- Sections of this chapter include instructions specific to either Windows 2003 Server or Windows 2008 Server.
- Set the network properties.
- Set monitor resolution to a minimum of 1024 by 768 pixels.
- Install MS SQL Server 2005 or MS SQL Server 2008.
If you have installed Windows 2003 Server, then install MS SQL Server 2005.
If you installed Windows 2008 Server, then install MS SQL Server 2008.
- You must have SQL Server installed prior to installing Facility Commander Wnx software.
- In 'Server and Client Tools,' you must enter SPSQL in the 'Instance Name' field.

- SQL Server Agent must be running to keep the databases in optimal condition.

Note: You may experience other behavior based on the version of Windows you have installed. These are guidelines and these instructions are based on a sample configuration.

Network card

Note: If you purchased this system from UTC Fire & Security, the network card is installed for you.

If it is not already installed, install the network card now. Follow the instructions included with the board. Verify that you are using the same network card speed as the existing network. Refer to the Microsoft Installation Guide for details of a network card configuration or obtain information at www.microsoft.com/technet.

For Windows 7 and Windows 2008 operating systems, if you are using multiple network interface cards (NICs) for FCWnx related use, make sure that you choose the same network profile for each NIC. When attaching your NIC to a new (not previously configured) network, a popup window opens asking whether this new network is Home, Work or Public. Make sure you choose the same for both NICs so that when FCWnx is installed and SecurityCnfg is run, the profile will have the correct FCWnx ports open.

Configuring the computer for the network

Determining server type

Before you continue, you will need to decide the server type in the network. Always consult with the network administrator before adding any computers to an existing network.

The server computer can be:

- Part of a new or existing workgroup.
- Part of an existing domain. (See “Adding the computer to an existing domain” on page 10.)

Note: Setup will be different depending on which option you choose. Decide which Server type applies before you continue with the installation.

Adding the computer to an existing domain

If the server computer will be part of an existing domain, you will need to add the server computer to the network. Since network configuration varies from company to company, see your network administrator for assistance.

Note: If your Server and client computers participate in a workgroup, add the workgroup name during the installation. We suggest using FCWNX. Write down the Server name and workgroup name as these are required during the client installation.

It is important that the server and client systems use the same network properties. Refer to “Setting the network properties” on page 12 for more information or consult with your network administrator.

Installing the operating system

The server computer *must* be running Windows 2003 or Windows 2008 Server. If it is not already installed on your system, you will need to install it now, along with the latest applicable Service Packs.

WARNING: The computer must not be configured for Sleep Mode or Hibernate Mode. All Facility Commander Wnx services, such as monitoring and transferring events or alarms will not function if the computer is in Sleep Mode or Hibernate Mode. Make sure that your computer setting for Sleep Mode and Hibernate Mode is set to NEVER. It is also a good practice to set your "Turn off display" setting to Never. Refer to the documentation that came with your version of Windows for details on these settings or check with your IT department.

Note: For the Credential Designer features to function properly, the Windows operating system must be installed on drive C:\.

Insert the Windows 2003 or Windows 2008 Installation disc in your CD/DVD drive and follow the instructions provided by the Microsoft documentation.

Note: If you purchased this system from UTC Fire & Security, the operating system is installed for you.

This section represents an overview of the installation procedure and does not provide step-by-step instructions to install the operating system. During installation of the operating system, review the following items:

Windows user password

For Facility Commander Wnx to work correctly once installed, all Windows login IDs used in conjunction with Facility Commander Wnx should have an assigned password. *Do not* leave blank.

Matching user information

All computers within an FCWnx system must use a matching user name and password at login in order to communicate.

Assigning user passwords

We recommend that you assign a password to all user accounts. This will avoid security permission issues when attempting to access remote client computers.

Refer to your Windows 2003 or Windows 2008 Server documentation for additional information on setting up a user and assigning passwords.

Windows 2003 Server

You will be asked to select a file system type. For added security, we recommend that you select NTFS.

On the Licensing Modes screen, select Per server.

Windows 2008 Server

You will be asked to select a file system type. For added security, we recommend that you select NTFS.

By default, the Password Policy is enabled. You will be asked to change the Administrator password after installation of Windows 2008 Server.

For additional information, consult your Microsoft documentation.

Setting up your monitor

The minimum recommended monitor resolution required for Facility Commander Wnx is 1024 by 768. If using Imaging, the minimum color resolution is High Color (16-bit).

To access the display settings:

1. Right-click your mouse on the desktop.
2. Select Properties from the menu.
3. Click the Settings tab in the Display Properties window.
4. Change the Screen resolution to at least 1024 by 768 pixels.
5. Change the Color quality to at least 16 bit if using imaging.
6. Click Apply.
7. Click OK.

Setting the network properties

Windows Server 2003

It is important that the same network properties are used for both the Facility Commander Wnx server and client systems.

To check the network settings:

1. Right-click My Network Places.
2. Select Properties from the shortcut menu.
3. Right-click the Local Area Connection icon and select Properties.
4. Select Internet Protocol TCP/IP.
5. Click Properties.
6. Select one:
 - Obtain an IP address automatically
 - Use the following IP address

Note: Facility Commander Wnx computers do not require static IP addresses. If you selected Use the following IP address option, you must obtain a valid IP address from the network administrator, or use a local IP address that no other computer is using in your network. Consult your network administrator for detailed instructions.

7. Click OK.
8. Click OK to exit Local Area Connection Properties.

9. After Windows is installed, restart the computer and make sure it is connected to the network. Verify that you do not have any hardware errors under Device Manager.

Windows Server 2008

To check the network settings:

1. Click Start, and then click Control Panel.
Category view: Click Network and Internet, and then click Network and Sharing Center.
Classic view: Double-click Network and Sharing Center.
2. Click Manage network connections.
3. Right-click the Local Area Connection, and then select Properties. The Local Area Connection Properties window opens.
4. Select Internet Protocol Version 4 (TCP/IPv4) and Version 6 (TCP/IPv6).

Note: If Version 6 is enabled on the server, it must be enabled on the client.

5. Click Properties.
6. Select one:
 - Obtain an IP address automatically
 - Use the following IP address:

Note: Facility Commander Wnx computers do not require static IP addresses. However, if you selected “Use the following IP address” option, you must obtain a valid IP address from the network administrator, or use a local IP address that no other computer is using in your network. Consult your network administrator for detailed instructions.

7. Click OK.
8. Click OK to exit Local Area Connection Properties.
9. After Windows is installed, restart the computer and make sure it is connected to the network. Verify that you do not have any hardware errors under Device Manager.

Windows firewall

Windows Server 2003

Firewall exceptions list

If the Firewall is selected ON, File and Printer Sharing on the Firewall Exceptions list must be enabled.

To enable File and Printer Sharing:

1. Click Start and then click Control Panel.
2. On the control panel, double-click Windows Firewall.
3. On the Exceptions tab of the Windows Firewall window, make sure that the File and Printer Sharing check box is checked, and then click OK.

Windows Server 2008

Firewall exceptions list

If the Firewall is selected ON, the following must be enabled in the Firewall Exceptions list:

- File and Printer Sharing
- Network discovery
- Workgroup Only: Remote Administration

To enable Firewall Exceptions selections:

1. Click Start and then click Control Panel.
2. On the control panel, double-click Windows Firewall.
3. Click Allow a program through Windows Firewall. The Windows Firewall Settings page opens.
4. On the Exceptions tab of the Windows Firewall page, make sure that the following check boxes are checked, and then click OK.
 - File and Printer Sharing
 - Network discovery
 - Workgroup Only: Remote Administration

Defining user accounts

The Users and Passwords selection in Control Panel allows you to add users to your computer and to add users to a group. In Windows 2003 and Windows 2008, permissions and user rights are usually granted to groups. By adding a user to a group, you give the user all the permissions and user rights assigned to that group.

During installation of the FCWnx application, the user group SPAdmin is created. Users must be a member of the SPAdmin group to perform most of the tasks necessary to operate the FCWnx system.

The user "secure" is automatically created during installation, and is part of the "Users" and "SPAdmin" group by default.

Adding additional users is optional but recommended since this clearly identifies each user in Windows.

Note: If you do choose to add additional users, you must assign them to the group "SPAdmin" after FCWnx is installed.

Installing Microsoft SQL Server

Note: If you purchased this system from UTC Fire & Security, SQL Server is installed and configured for you.

The SQL Server software is user supplied and is not included as part of a Facility Commander Wnx system. The SQL Server program stores and controls the Facility Commander Wnx databases. If you do not have SQL Server installed on the server computer that will store your databases, you must install it now. The following procedures provide a standard installation and based on your needs you may choose other available features. There are two versions:

- “Microsoft SQL Server 2005” below
- “Microsoft SQL Server 2008” on page 25

Microsoft SQL Server 2005

Installing Microsoft SQL Server 2005

To install Microsoft SQL Server 2005:

1. Insert Disc 1 of Microsoft SQL Server 2005 CD or the product DVD into the CD drive and wait as the Microsoft SQL Server 2005 window automatically opens.
2. When the Start window opens, select Server components, tools, Books Online, and samples, as shown in Figure 1 on page 17.

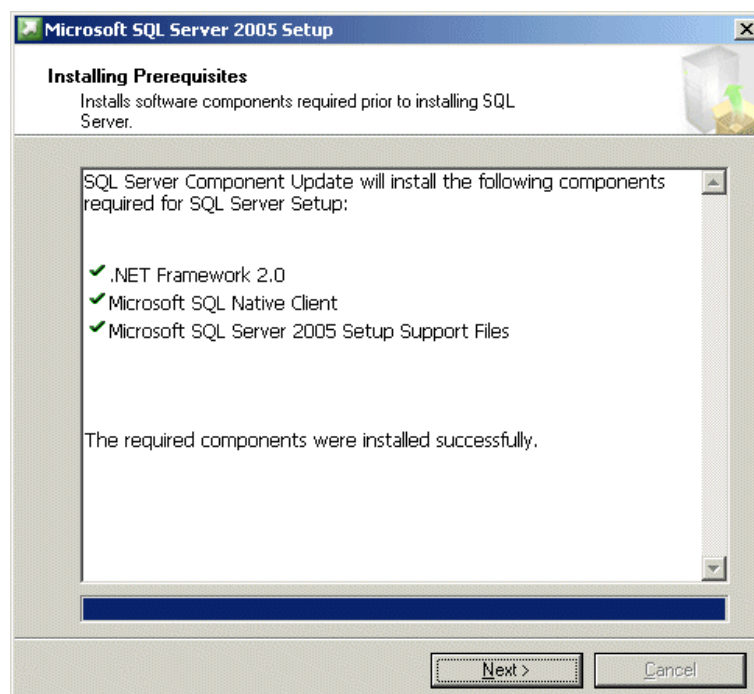
Figure 1: SQL Server 2005 Start



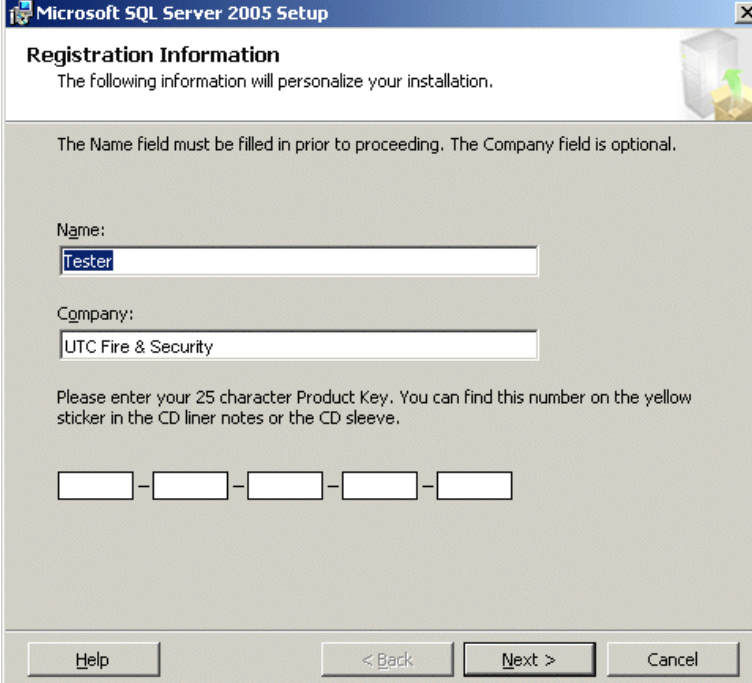
3. When the End User License Agreement window opens, review the agreement, select I accept the licensing terms and conditions, and then click Next.
4. A window displays a list of prerequisites, required prior to installing SQL Server. Click Install to begin installing the components as shown in Figure 2 on page 18.

Note: This process takes several minutes.

Figure 2: Installing Prerequisites



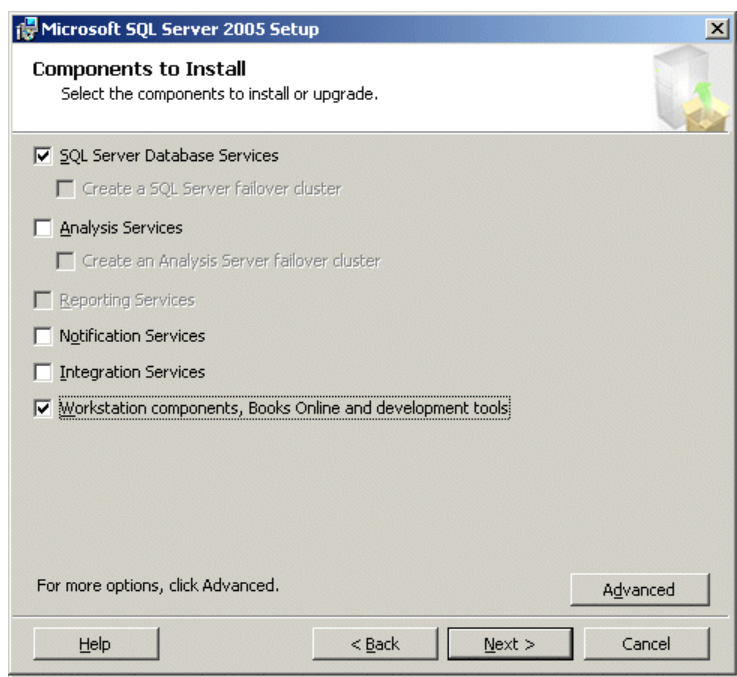
5. When the process is complete, click Next to continue.
6. The System Configuration Check window opens. No user action is required.
7. The Welcome to the Microsoft SQL Server Installation Wizard opens. Click Next to continue.
8. A second System Configuration Check opens. A list of potential installation problems is displayed. When the system check is finished, click Next to continue.
9. The Windows Installer window opens briefly. No user action is required.
10. The Microsoft SQL Server Installation window displays a progress bar as setup is preparing to continue with the installation. No user action is required.
11. The Registration Information window opens as shown in Figure 3 on page 19.

Figure 3: Registration Information

The screenshot shows the 'Microsoft SQL Server 2005 Setup' window with the 'Registration Information' tab selected. The window title bar includes the Microsoft logo and the text 'Microsoft SQL Server 2005 Setup'. The main content area has a light gray background. At the top, the title 'Registration Information' is followed by the text 'The following information will personalize your installation.' and a small icon of a server with a green arrow. Below this, a note states: 'The Name field must be filled in prior to proceeding. The Company field is optional.' There are two text input fields: 'Name:' with the text 'Tester' and 'Company:' with the text 'UTC Fire & Security'. Below these fields, a message says: 'Please enter your 25 character Product Key. You can find this number on the yellow sticker in the CD liner notes or the CD sleeve.' This is followed by five empty text boxes separated by hyphens. At the bottom of the window, there are four buttons: 'Help', '< Back', 'Next >', and 'Cancel'.

12. Enter a name, company, and the 25-character Product Key found on the yellow sticker in the DVD liner notes or the DVD sleeve. Verify your entry, and then click Next.
13. The Components to Install window opens as shown in Figure 4 on page 20.

Figure 4: Components to Install



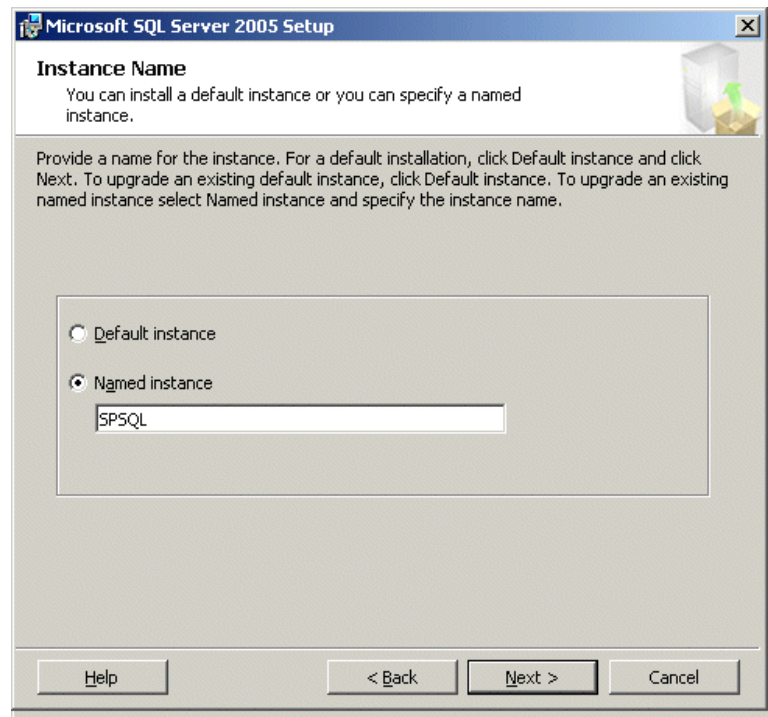
14. Select the following items, and then click Next:

- SQL Server Database Services
- Workstation components, Books Online and development tools

15. The Instance Name window opens as shown in Figure 5 on page 21.

16. Select Named Instance and enter SPSQL. Click Next.

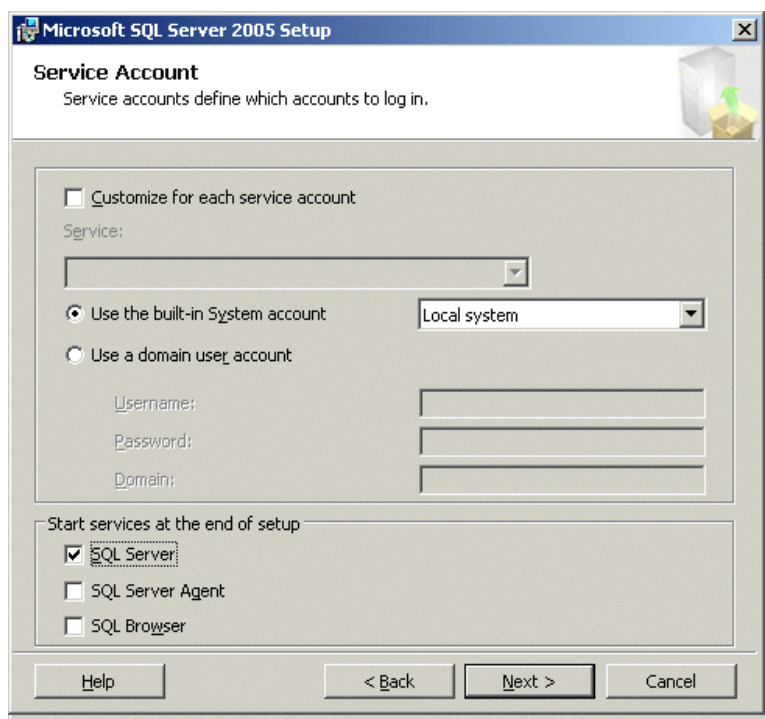
Note: It is very important that you enter the correct instance for the appropriate product.

Figure 5: Instance Name

17. The Service Account window opens as shown in Figure 6 on page 22.

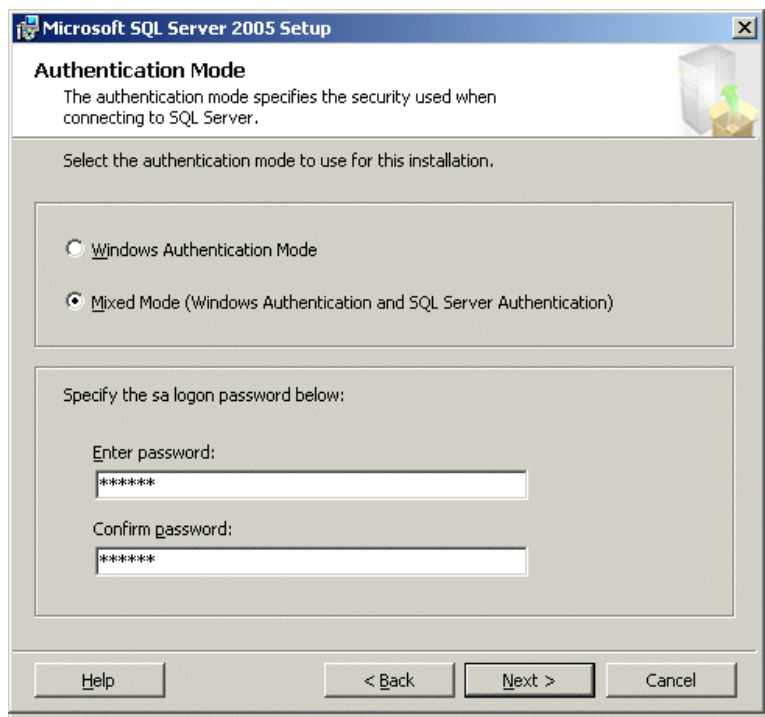
- If you select Use the built-in System account, verify that Local system displays in the dialog box.
- In the Start services at the end of setup grouping, select SQL Server and SQL Browser. Click Next. If you select SQL Server Agent at this time, you do not have to set properties later, as in “Setting SQL Server Agent properties” on page 24.
- Click Next.

Figure 6: Service Account



18. An Authentication Mode window opens as shown in Figure 7 below.

Figure 7: Authentication Mode



19. Select Mixed Mode and enter the 'sa' password, and then enter the password again to confirm. This password is case-sensitive. Click Next.

Note: We strongly suggest that you assign a unique password of your choice. This is the sa user password, used later in the installation of your application, during creation of the database.

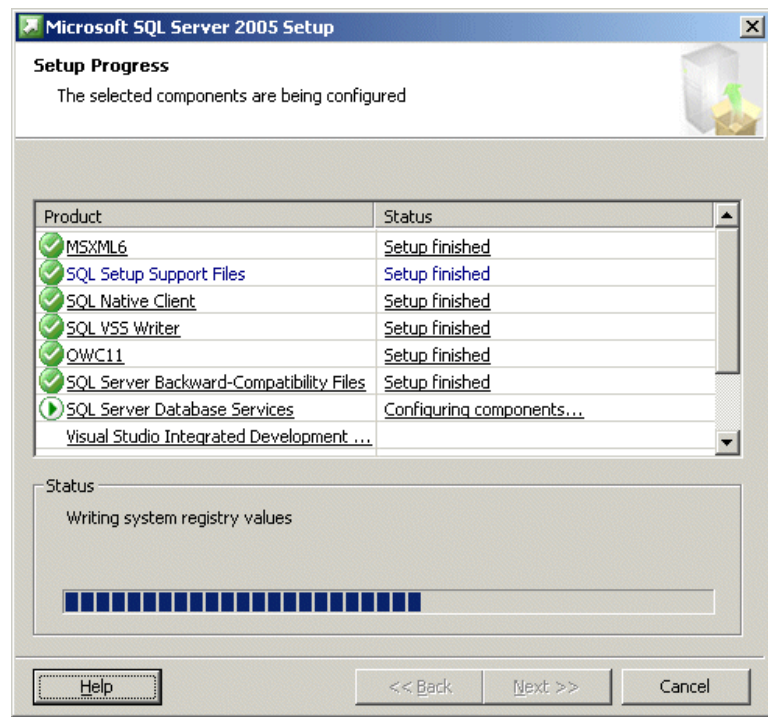
20. A Collation Settings window opens. Leave all default settings. Do not change any selections on this window. Click Next.

21. An Error and Usage Report Settings window opens. Do not change any options on this page. Accept the defaults, and then click Next.

22. When the Ready to Install window opens, verify the components selections. Click Back to change any of the settings or click Install to continue.

23. An Installing Microsoft SQL Server window opens briefly and automatically moves on to Setup Progress as shown in Figure 8 below.

Figure 8: Setup Progress



24. A checklist displays as components are configured and validated. A status column indicates the progress.

Note: This process takes quite some time. During the process, a message displays, requesting that you insert Disc 2 of the SQL Server 2005. Insert Disc 2, and then click OK. Please wait. (This does not apply if you are installing from a DVD.)

25. When the process is finished, click Next.
26. A Completing Microsoft SQL Server 2005 Setup window opens. A list of setup logs displays sources of information describing the configuration. Review the list, and then click Finish to exit the Installation Wizard.
27. We recommend that you restart your computer at this time.

Install SQL 2005 Service Pack 3

Service Pack 3 is required. If it is not currently installed, you will need to do so now.

To install SQL Server 2005 Service Pack 3:

1. Insert the FCWnx Windows Updates disc into the CD/DVD drive.
2. Navigate to the SQL Server 2005 SP3 folder.
3. Double click on the file: SQLServer2005SP3-KB955706-x86-ENU.exe (32-bit) or SQLServer2005SP3-KB955706-x64-ENU.exe (64-bit).
4. Follow the on-screen instructions. When prompted, make sure that you select the SPSQL instance.
5. We recommend that you restart your computer at this time.

Setting SQL Server Agent properties

By default, the SQL Server Agent service is disabled when SQL Server 2005 is installed. This service must be running to keep the databases in optimal condition.

Note: See the “Service Account window” step on page 21. If you selected SQL Server Agent on the Service Account window, you do not have to set Server Agent properties at this time.

To set SQL Server Agent to automatic startup:

1. Right-click My Computer on your desktop and select Manage.
2. In the Computer Management window, expand Services and Applications and then expand Services to display the list of services on your computer.
3. Select and right-click SQL Server Agent (SPSQL), where SPSQL is used in this example.
4. Select Properties to open the Properties window.
5. In the Startup type, select Automatic from the drop-down list.
6. Click OK.
7. We recommend that you restart your computer at this time.

Microsoft SQL Server 2005 communication configuration

To enable the Protocols for SPSQL:

1. Click Start, All Programs, Microsoft SQL Server 2005, Configuration Tools, SQL Server Configuration Manager, and then SQL Server 2005 Network Configuration.
2. Double-click Protocols for SPSQL. One at a time, right-click on Shared Memory, Named Pipes, and TCP/IP, and then select Enabled.

To enable the Protocols for SQL Native Client:

1. From the SQL Server Configuration Manager, click SQL Native Client Configuration.
2. Double-click Client Protocols. One at a time, right-click on Shared Memory, Named Pipes, and TCP/IP, and then select Enabled.
3. Click File, and then Exit.
4. We recommend that you restart your computer at this time.

Microsoft SQL Server 2008

Installing Microsoft SQL Server 2008

To install Microsoft SQL Server 2008:

1. Insert the Microsoft SQL Server 2008 CD or the product DVD into the CD/DVD drive and wait as the Microsoft SQL Server 2008 window automatically opens.
2. When the AutoPlay window opens, click Run SETUP.EXE.
3. A window displays a list of prerequisites, required prior to installing SQL Server. Click OK to begin installing the components.
4. When the .NET Framework Welcome to Setup window opens, review the agreement, select I have read and ACCEPT the terms of the License Agreement, and then click Install.
5. When the process is complete, the .NET Installation complete window opens, click Exit.
6. The Windows Update Standalone Installer window opens, click OK to install Windows software updates.
7. A popup window opens indicating that the installation is complete, click Restart Now.

8. After the computer has been restarted, log on as Administrator using your Administrator password.
9. You must restart the SQL Server 2008 installation again by either of the following methods:
 - Open and close your CD/DVD drive to initialize setup
 - Using Windows Explorer, navigate to the CD/DVD drive and double-click Setup.exe.
10. The SQL Server Installation Center window opens. Click Installation and then click New SQL SERVER stand alone installation or add features to an existing installation as shown in Figure 9 below.

Figure 9: SQL Server Installation Center



11. The Setup Support Rules window opens. When the operation is complete, click OK.
12. The Product Key window opens. If the product key is not already entered for you, enter the product key and then click Next.
13. The License Terms window opens. Review the agreement, and then select I accept the license terms. Click Next.
14. The Setup Support Files window opens and provides a list of components that are required for SQL Server setup. Click Install.
15. The Setup Support Rules window opens and identifies problems that might occur when you install SQL Server Setup support files. Click Next.
16. The Feature Selection window opens as shown in Figure 10 on page 27. Select the following options, and then click Next.

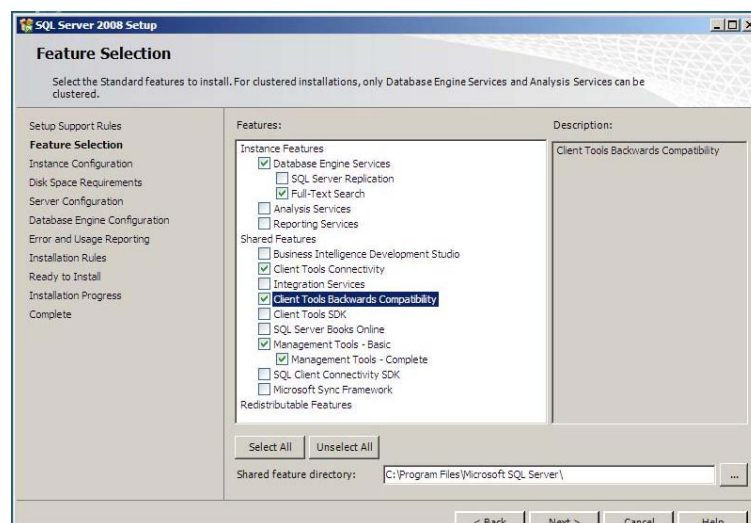
Instance Features:

- Database Engine Services
- Full-Text Search.

Shared Features:

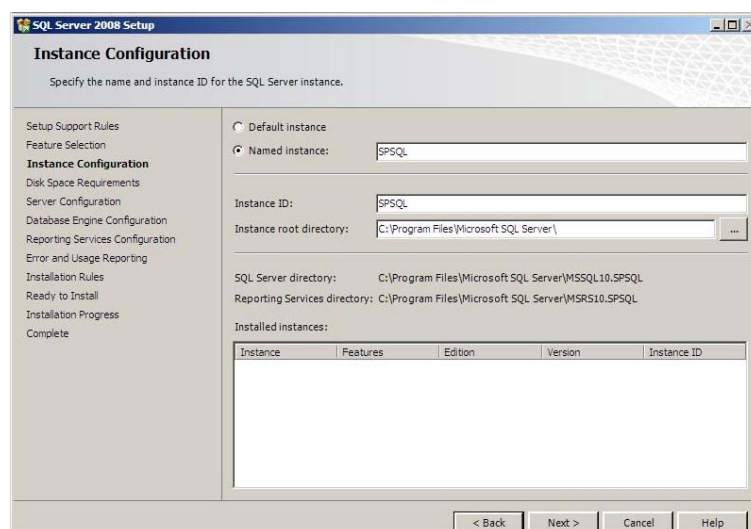
- Client Tools Connectivity
- Client Tools Backwards Compatibility
- Management Tools - Basic
- Management Tools - Complete.

Figure 10: Feature Selection



17. The Instance Configuration window opens. Select Named Instance, and then enter SPSQL. Click Next. See Figure 11 on page 28.

Note: It is very important that you enter the correct instance for the appropriate product.

Figure 11: Instance Configuration

18. The Disk Space Requirements window opens. Click Next.

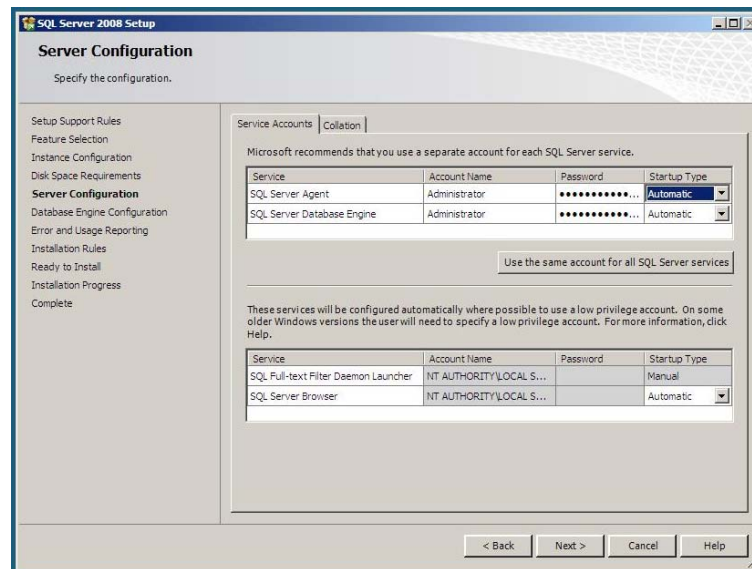
19. The Server Configuration window opens. Click the Service Accounts tab, and then configure settings as follows: See Figure 12 on page 29.

Click Use the same account for all SQL Server services to apply the same username and password to the SQL Server Agent, SQL Server Database Engine and SQL Server Reporting Services.

Enter the following information, and then click OK:

- Account Name: Enter Administrator or the domain account name.
- Password: Enter the administrator password for this operating system.
- Startup Type: Select Automatic for SQL Server Agent, SQL Server Database Engine, and SQL Server Browser.

20. Click Next.

Figure 12: Server Configuration

21. The Database Engine Configuration window opens. Click the Account Provisioning tab, and then configure the settings as follows: See Figure 13 on page 30.

Authentication Mode: Click Mixed Mode (SQL Server authentication and Windows authentication).

Built-in SQL Server system administrator account: In the Enter password field, enter the 'sa' password. The default 'sa' password is SecurityMaster08 (case sensitive).

Specify SQL Server administrators: Click Add. The Select Users or Groups window opens as shown in Figure 14 on page 30. In the Enter the object names to select field, enter Administrator, and then click Check Names to make sure you have entered the Administrator for this computer. Click OK to close the Select Users or Groups window.

22. Click Next.

Figure 13: Database Engine Configuration

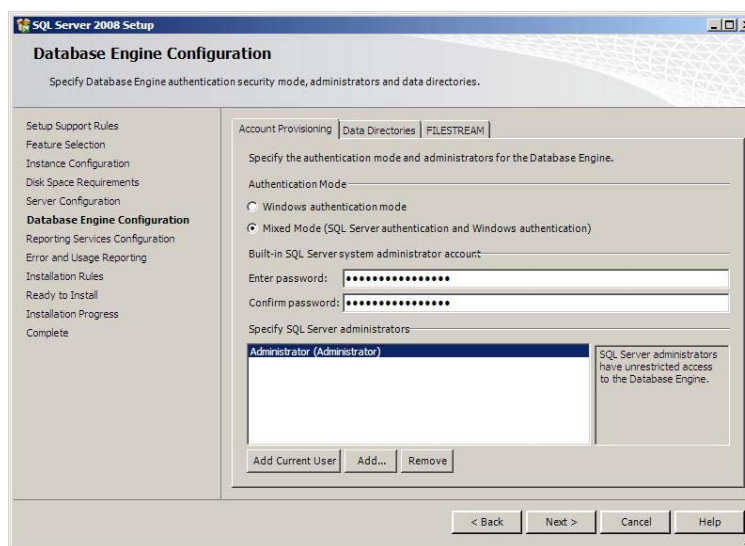


Figure 14: Select Users or Groups



23. The Error and Usage Reporting window opens. Click Next.
24. The Installation Rules window opens. Click Next.
25. The Ready to Install window opens. Click Install.
26. The Installation Progress window opens. When the setup process is complete, click Next.
27. The Complete window opens. Click Close.
28. We recommend that you restart your computer at this time.

Install SQL 2008 Service Pack 1

Service Pack 1 is required. If it is not currently installed, you will need to do so now.

To install SQL Server 2008 Service Pack 1:

1. Insert the FCWnx Windows Updates disc into the CD/DVD drive.
2. Navigate to the SQL Server 2008 SP1 folder.
3. Double click on the file: SQLServer2008SP1- KB968369-x86-ENU.exe (32-bit) or SQLServer2008SP1- KB968369-x64-ENU.exe (64-bit).
4. Follow the on-screen instructions. When prompted, make sure that you select the SPSQL instance.
5. We recommend that you restart your computer at this time.

Microsoft SQL Server 2008 communication configuration

To enable the Protocols for SPSQL:

1. Click Start, All Programs, Microsoft SQL Server 2008, Configuration Tools, SQL Server Configuration Manager, and then SQL Server Network Configuration.
2. Double-click Protocols for SPSQL. One at a time, right-click on Shared Memory, Named Pipes, and TCP/IP, and then select Enabled.

To enable the Protocols for SQL Native Client:

1. From the SQL Server Configuration Manager, click SQL Native Client 10.0 Configuration.
2. Double-click Client Protocols. One at a time, right-click on Shared Memory, Named Pipes, and TCP/IP, and then select Enabled.
3. Click File, and then Exit.
4. We recommend that you restart your computer at this time.

Windows Server 2008 communication foundation HTTP activation

Windows Communication Foundation HTTP Activation must be enabled on Window Server 2008 servers.

To enable Windows Communication Foundation HTTP Activation:

1. Click Start, Control Panel, and then double-click Programs and Features.
2. Select Turn Windows features on or off from the Tasks panel on the left.
3. On the left pane under Server Manager, click Features. A list of installed features is displayed in the right pane, under Features Summary.

4. If Windows Communication Foundation HTTP Activation is not installed, click Add Features. The Add Features Wizard opens.
5. Expand the >NET Framework Activation tree, and then expand the WCF Activation tree. Check the HTTP Activation check box. A pop-up opens displaying the role services required for HTTP Activation. Click Add Required Role Services.
6. Click Next. The Web Server (IIS) page opens. Click Next.
7. The Select Role Services page opens. Click Next.
8. The Confirm Installation Selections page opens. Click Install.

Cluster environment

Contact the Enterprise Services Department of UTC Fire & Security at (561) 998-6168 to discuss Windows Clustering setup and installation before installing Facility Commander Wnx. UTC Fire & Security business sales representative or Technical Support, at 1 888 437-3287, can provide additional details of these services and a quotation applicable to your system configuration.

What's next?

Proceed to Chapter 3 "Installing Facility Commander Wnx Enterprise Edition Server" on page 33.

Chapter 3

Installing Facility Commander Wnx Enterprise Edition Server

Summary

This chapter includes instructions for installation of Facility Commander Wnx Server software on Windows 2003 or Windows 2008 Standard Edition server computers. Follow instructions in the order presented. These instructions pertain to Facility Commander Wnx Enterprise Edition.

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Installing Facility Commander Wnx

Before you begin

- Your Facility Commander Wnx system *will not* install unless minimum requirements have been met. Before you begin, refer to “Recommended minimum requirements” on page 2 and “Preinstallation checklist” on page 8.
- You *must* install the appropriate Windows Service Pack prior to the Facility Commander Wnx installation or the installation program will stop.
- You *must* install the appropriate Windows SQL Server Service Pack prior to the Facility Commander Wnx installation or the installation program will stop.
- If you are installing on a non-English operating system, .NET Framework *must* be installed in the appropriate language to the operating system you are installing. You cannot install Facility Commander Wnx until this is accomplished.

Starting the installation

Note: If you purchased this system from UTC Fire & Security, Facility Commander Wnx is installed for you. Skip to Chapter 7 “Logging on and configuring Facility Commander Wnx” on page 149.

To install required components:

1. You *must* be logged in as the local administrator user. If not, log off and log back on as a user with these permissions. If you are logging on to a domain environment, log off and log on as administrator to the local computer. (If the computer is a domain controller, log on as an administrator to the domain.)
2. Insert the FCWnx installation disc into the CD/DVD drive. When prompted, click Run autorun.exe.

If the disc does not launch, you must manually start the software. Using Windows Explorer, navigate to the FCWnx Installation disc, and then double-click autorun.exe.

3. The Facility Commander Wnx Main Menu opens. Click Install FCWnx v7.7.
4. The Facility Commander Wnx introduction page opens. Click Install.

A series of windows may display as the listed components automatically install if not already there. These components may cause the system to restart when a new version is installed. If your computer restarts, log on as Administrator and installation continues.

- .NET Framework
- Windows Installer

Note: On rare occasions when installing Facility Commander from a DVD drive, the installation will stall for approximately 10 to 20 minutes from the time you click Install to the time when the Welcome to Facility Commander Wnx 7.7 Installation Wizard page opens. If this occurs, it is most likely caused by your anti virus software. If you have anti virus software running, you must configure it so that the DVD drive is not scanned. Refer to the documentation that came with your anti virus software for details.

5. The Facility Commander Wnx installation processes updates on your system. When the latest versions of each component are updated and identified, Facility Commander Wnx installation begins, and the Welcome to the Facility Commander Wnx 7.7 Installation Wizard window opens. Continue with “Facility Commander Wnx software installation begins” below.

Facility Commander Wnx software installation begins

Note: A Cancel button displays on every FCWnx installation window. If you click Cancel at any time during the installation, the FCWnx installation process stops, but all Windows components that have been installed must be manually removed.

To install the Facility Commander Wnx application:

1. The Facility Commander Wnx Welcome window opens. Click Next. The License Agreement window opens.
2. Select I accept the license agreement, and then click Next.
3. Select Typical or Custom. Refer to Table 4 below. Click Next.

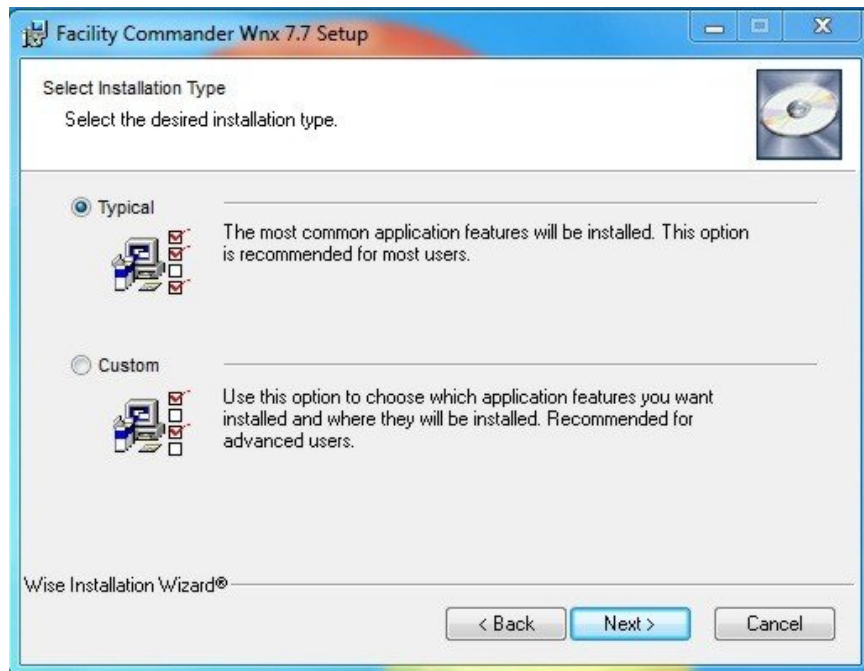
Table 4: Installation type

Typical installation type	Custom installation type
<p>The installation requires little user interaction and you do not need to make any special choices.</p> <p>Follow instructions in “Typical Installation” below.</p>	<p>If you need to accomplish any one of the following tasks, you must select Custom:</p> <ul style="list-style-type: none"> • Use Credential Aliasing. • Change the password for the Window logon USERID ‘secure.’ <p>Note: If you change the default Facility Commander Wnx user password, all computers must use the identical Facility Commander Wnx user replacement password.</p> <ul style="list-style-type: none"> • Select options for Facility Commander Wnx databases and file shares to be separated from the Facility Commander Wnx application code and placed on another computer defined by the customer. Refer to “Custom configuration options” on page 43 for a list of possible configuration options. <p>Follow instructions in “Custom Installation for Facility Commander Wnx Enterprise Edition” on page 41.</p>

Typical Installation

To continue with a Typical installation:

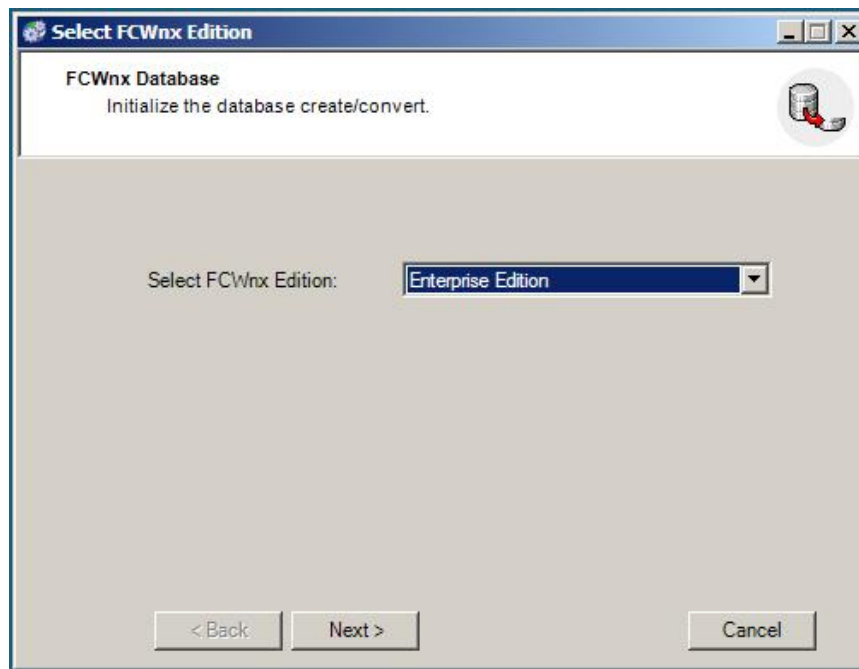
1. Click Typical, and then click Next.

Figure 15: Select Typical Installation Type

2. At the Install FCWnx Client/Server window, select Server, and then click Next. The Ready to Install the Application window opens.
3. The SQL Server Password dialog box opens. You must enter the SQL Server 'sa' password in the dialog box. This password was created during installation of Microsoft SQL. Refer to "Installing Microsoft SQL Server" on page 16. Enter your previously assigned SQL password here. (If you purchased your Facility Commander Wnx system from UTC Fire & Security, a temporary password of SecurityMaster08 (case sensitive) was assigned for you.)
4. The default destination folder is indicated. You may want to install Facility Commander Wnx in another location. Click Browse to navigate to the program folder of your choice, for placement of Facility Commander Wnx files.

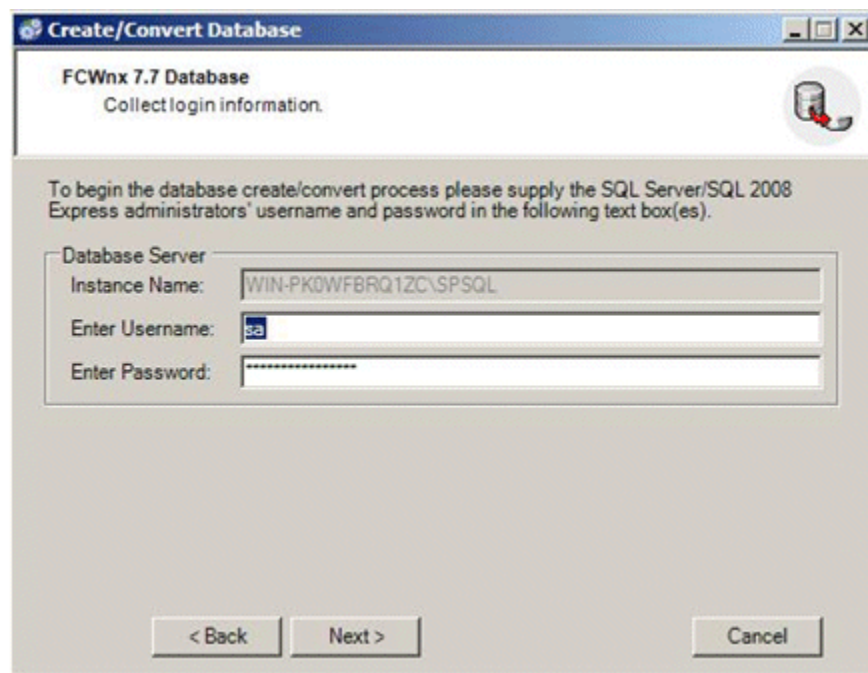
Note: For the Credential Designer features to function properly, FCWnx must be installed on drive C:\.
5. Click Next to continue. Facility Commander Wnx copies system files, updates the system configuration, and displays the Facility Commander Wnx icon on your desktop. This takes several minutes.
6. When the Facility Commander Wnx 7.7 has been successfully installed window opens, click Finish. The Select Facility Commander Wnx Edition window opens, as shown in Figure 16 on page 38.

Figure 16: Select FCWnx Edition



7. Select Enterprise Edition, and then click Next.
8. The Create/Convert Database window opens, as shown in Figure 17 on page 39. The Password field displays your previously assigned and encrypted SQL 'sa' password. (If you purchased your Facility Commander Wnx system from UTC Fire & Security, a temporary password of SecurityMaster08 (case sensitive) was assigned for you.)

Figure 17: Create/Convert Database window



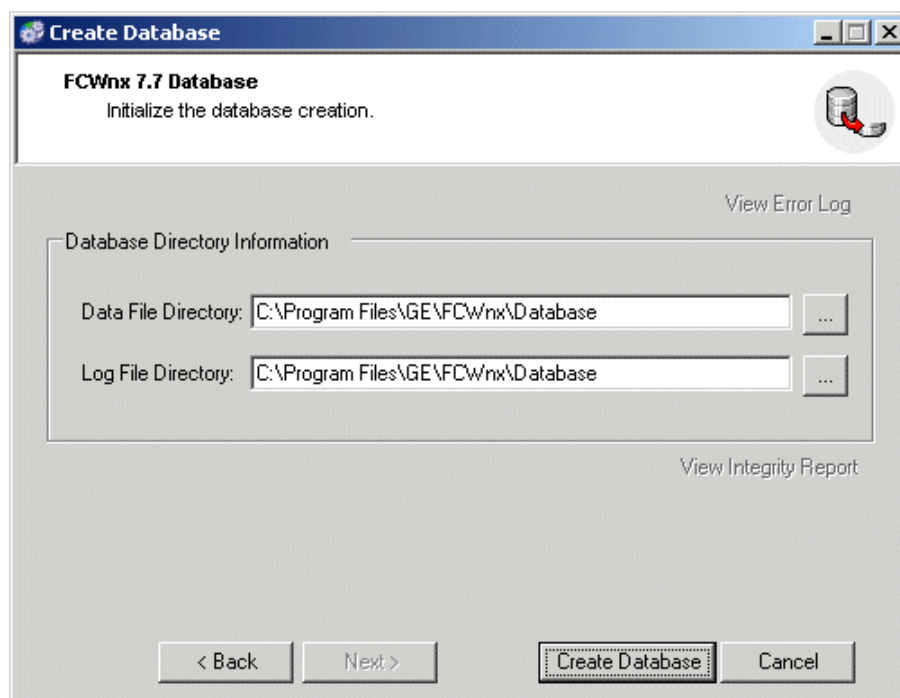
9. Click Next to open the Create Database window, as shown in Figure 18 on page 40.

The default directories are indicated. Each Facility Commander Wnx database consists of data files and transaction logs. You have an option to place those components in different physical locations. You may consider this if your IT Department has certain policies regarding database installation. Consult with your IT Department for assistance.

- **Data File Directory:** The Data File Directory field displays the default directory. Accept the default as displayed or click the Browse button and browse to any folder location where data files will be stored.
- **Log File Directory:** The Log File Directory field displays the default directory. Accept the default or click the Browse button and browse to the folder location where database log files will be stored.

Note: This refers to the database logs; this does not refer to the Facility Commander Wnx logs.

Figure 18: Create Database window



10. Review the Database Directory Information. If acceptable, click Create Database. The database creation begins and a progress bar is displayed. This may take a few minutes.
11. When the database creation is complete, a message displays informing you that the database was successfully created/converted.
Note: A log file is created when the Create Database program is run. The log file, called 'SPCreateDB.txt' is found in the Logs folder.
12. Click OK. The dialog box closes.
13. When the Facility Commander Wnx has been successfully installed window opens, click Finish. The FCWnx License Setup window opens.
14. Continue with "Licensing Facility Commander" on page 107.

Custom Installation for Facility Commander Wnx Enterprise Edition

Caution: Custom installation is recommended for experienced software installers only

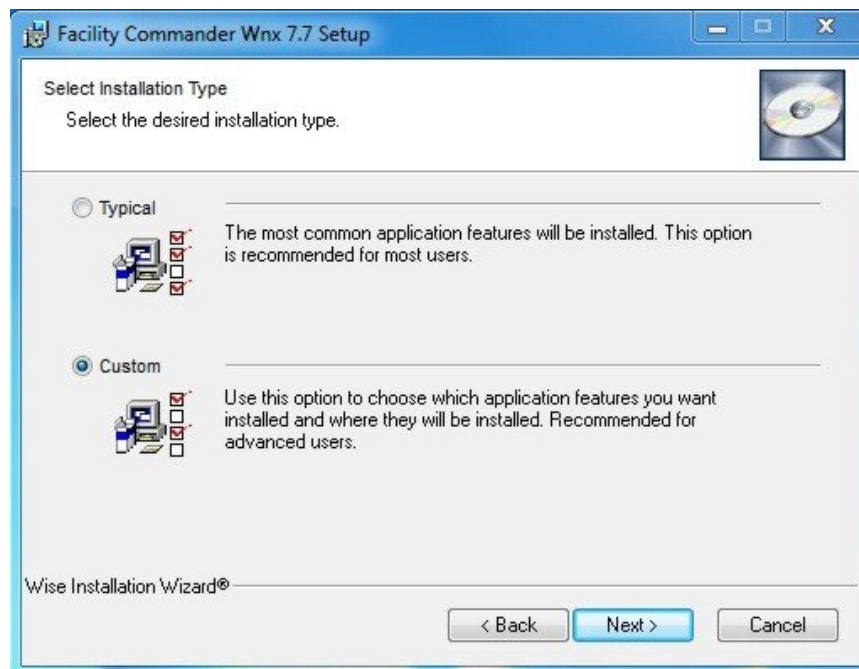
Note: You *must* select Custom to achieve any of the following:

- Credential aliasing
- Change the password for the Window logon USERID “secure.”
- Selectively installing Database Server, File Server, or FCWnx Client Application. These configuration options allow Facility Commander Wnx databases and file shares to be separated from Facility Commander Wnx application code and placed on another computer defined by you.

Note: Installing Facility Commander Wnx in a Cluster environment requires special configuration. Refer to the document, *Installing Facility Commander Wnx in a Clustered Environment*, included on your Document disc that shipped with your Facility Commander Wnx system. Call Sales Engineering or Technical Support at 1 888-437-3287, for additional details on clustering setup and installation before installing Facility Commander Wnx.

1. Select Custom as the type of installation, and then click Next.

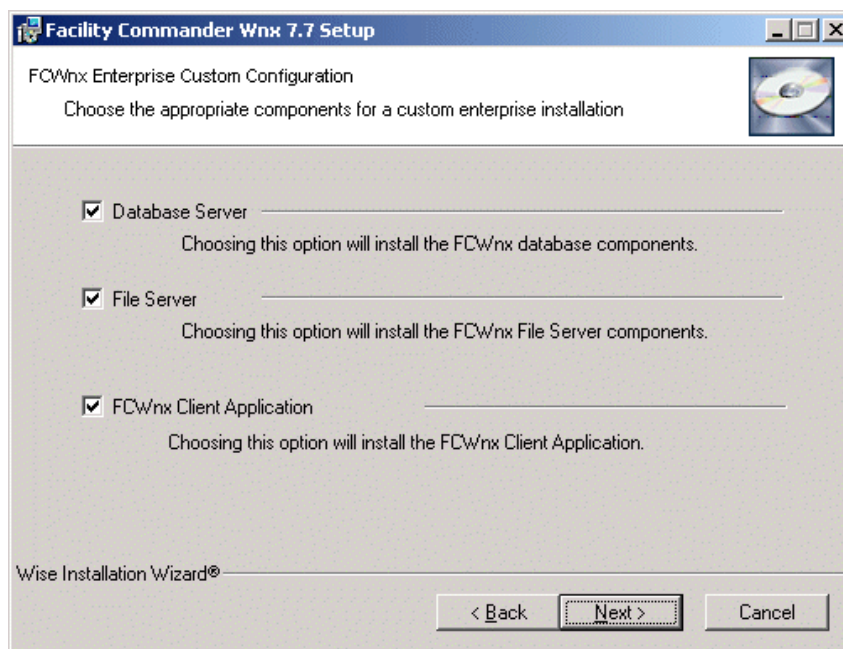
Figure 19: Select Installation Type window - Custom



To begin your Custom installation:

1. The Custom Configuration window opens as shown in Figure 20 below. This window allows you to choose which Facility Commander Wnx features to configure on this computer.

Figure 20: Enterprise Server - Custom Configuration



2. Select one or more of the options pertaining to the system you are installing. Refer to Table 5 below and Table 6 on page 43.

Note: Some components require that a prerequisite component be installed at another computer before you begin.

Table 5: Enterprise server options

Option	Description
Database server	Selecting this option designates this server as the database server. This server is then used to store the three databases, SecurePerfect, SecurePerfectArchive, and SecurePerfectHistory. An additional selection divides data files and transaction logs. The Database Server option is a prerequisite in order to install File Server and FCWnx Application.
File server	Selecting this option designates this Server as the Facility Commander Wnx file server. This server stores the data files shared by clients on the Facility Commander Wnx network. File shares include graphics, images, signatures, designs, video, and firmware. The File Server option is a prerequisite in order to install FCWnx Application.

FCWnx client application	Selecting this option designates this Server for the Facility Commander Wnx application. Facility Commander Wnx client file shares install. This includes the executable file, Facility Commander Wnx services, and Facility Commander Wnx DLLs.
--------------------------	--

3. After you have selected the appropriate options, click Next.

Custom configuration options

The scenarios in the following custom configurations are the result of selections made on the FCWnx Enterprise Custom Configuration window. Refer to Figure 20 on page 42.

Caution: Custom installation is recommended for experienced software installers only.

Note: Some components require that a prerequisite component be installed at another computer before you begin. (Windows that display during installation are similar to the sample configurations presented.)

Table 6: Custom configuration options

Scenario	Begin on page
"1. Database server, file server, and FCWnx application configuration"	44
"2. Database server and file server configuration"	50
"3. Database server and FCWnx application configuration" on page 61"	60
"4. Database server configuration"	71
"5. Each component on a separate computer" on page 82"	82

Caution: When you select a scenario, be sure to complete all instructions for that scenario.

1. Database server, file server, and FCWnx application configuration

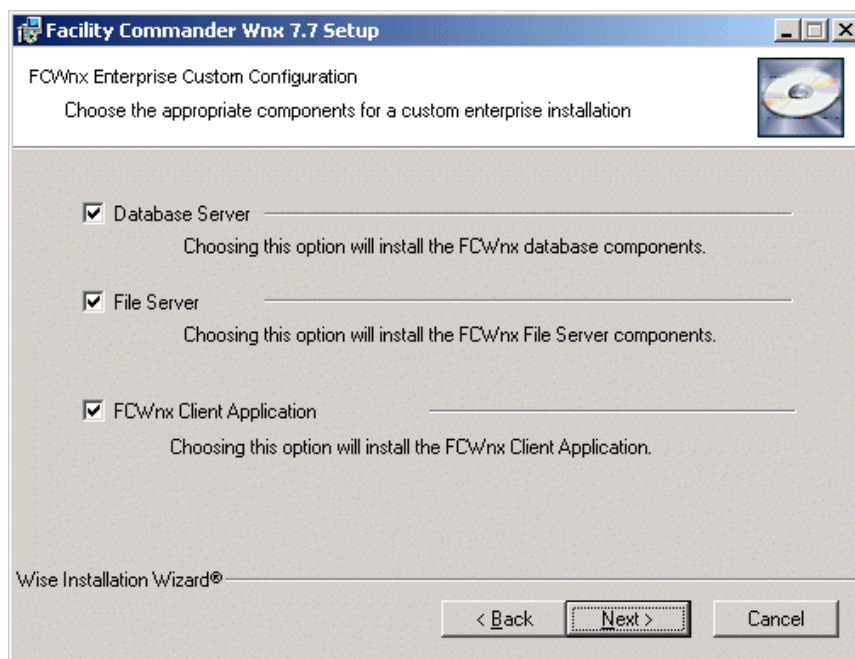
Components	Computer 1	Computer 2	Computer 3
Database server	X		
File server	X		
FCWnx application	X		

Note: This configuration has all components installed on Computer 1. Although these are the same components as Typical, you chose Custom to use credential aliasing or to change the secure password.

To install the database, file server, and FCWnx application configuration:

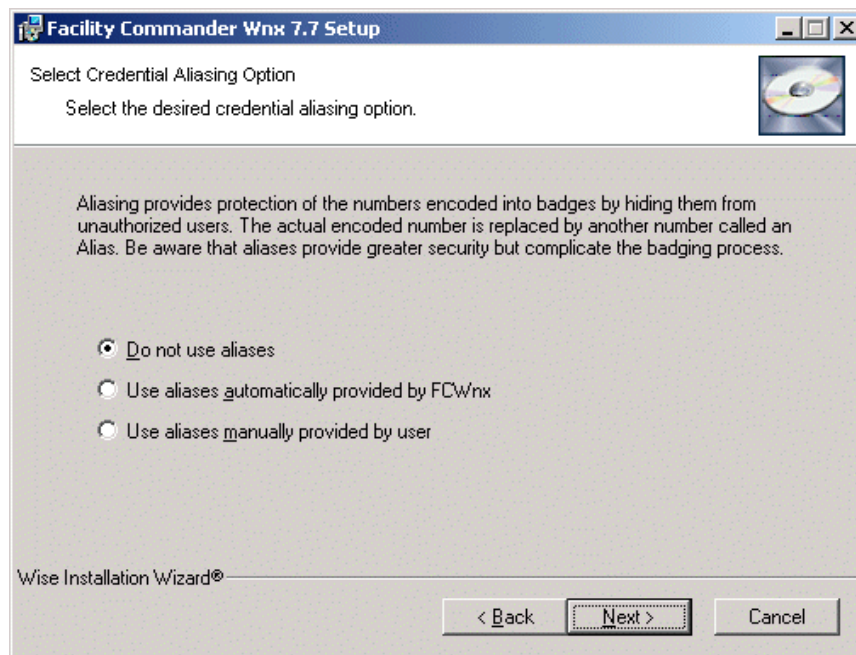
1. On the FCWnx Enterprise Custom Configuration window, select Database Server, File Server and FCWnx Client Application.

Figure 21: FCWnx Enterprise Custom Configuration - All components selected

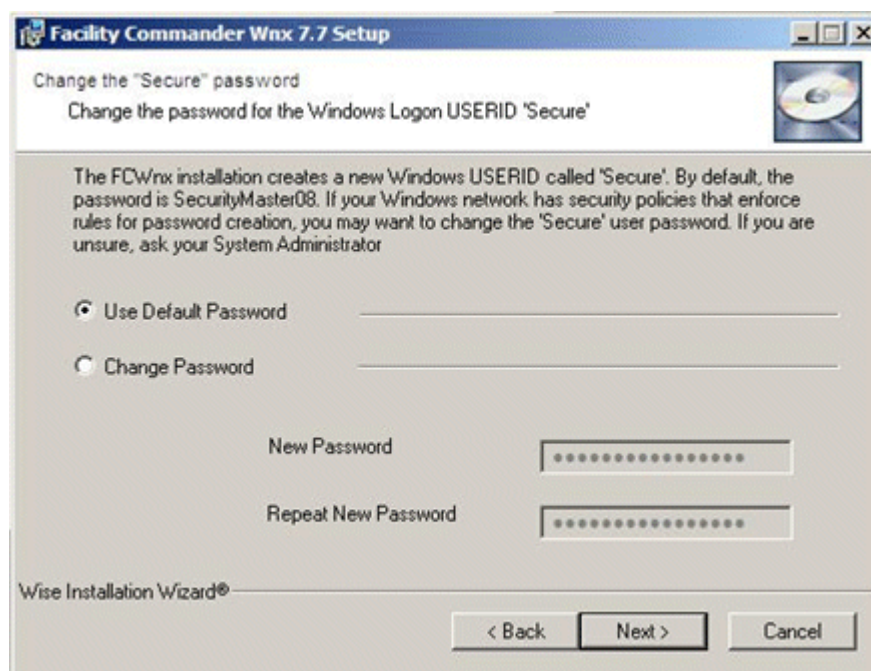


2. The Select Credential Aliasing Option window opens as shown in Figure 22 below. This feature allows you to assign a credential number that represents the encoded credential number. This provides added security in that the encoded number is only displayed to authorized users.
 - Do not use aliases indicates no aliasing will be used.
 - Use aliases automatically provided by FCWnx assigns the credential number for you.
 - Use aliases manually provided by user aliasing allows you to assign the number.

Figure 22: Credential Aliasing window



3. Choose one aliasing option, then click Next.
4. The Change the "Secure" password window opens as shown in Figure 23 on page 46.

Figure 23: Change the “Secure” Password window

5. The Facility Commander Wnx installation creates a new Windows User ID called secure. By default, the password is SecurityMaster08 (case sensitive). If your Windows network has security policies that enforce rules for password creation, you may need to change the secure user password. If you are unsure, ask your system administrator. Select one of the following:
 - Use Default Password
 - Change Password (If you select this option, enter your new password and then enter a second time.)
6. Click Next to continue. The Ready to Install the Application window opens.
7. Enter the SQL Server password for the 'sa' user. (This password was created during installation of Microsoft SQL. Refer to “Installing Microsoft SQL Server” on page 16.

Note: Enter your previously assigned SQL password. (If you purchased your Facility Commander Wnx system from UTC Fire & Security, a temporary password of SecurityMaster08 (case sensitive) was assigned for you.

The default Destination Folder is indicated. You may want to install to another location. Click Browse to navigate to the program folder of your choice for placement of Facility Commander Wnx files.

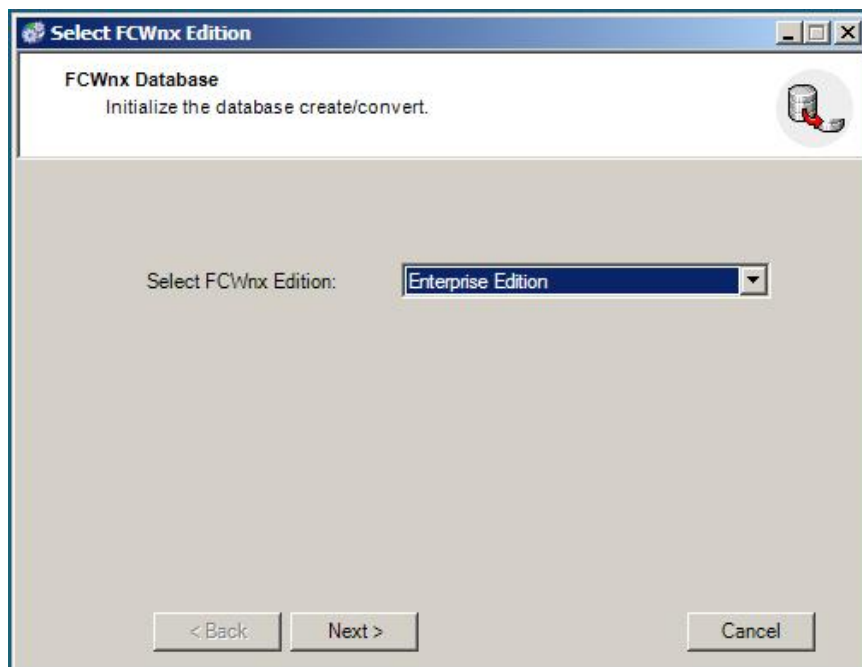
8. Click Next to continue. A series of Access Control and Security Management windows open as Facility Commander Wnx copies system files, updates the system configuration, and displays the Facility Commander Wnx icon on your desktop. This may take a few minutes.
9. When the Facility Commander Wnx has been successfully installed window opens, click Finish. The Select Facility Commander Wnx Edition window opens.

To select a Facility Commander Wnx edition:

1. From the drop-down list of Facility Commander Wnx editions, select Enterprise Edition as shown in Figure 16 on page 38.
2. Click Next. The Create/Convert Database window opens, as shown in Figure 17 on page 39.

Note: We recommend that you *do not* select Cancel in this window. However, if you must exit at this time and plan to create your database at another time, you can do so by clicking Start, All Programs, Facility Commander Wnx, and then Create FCWnx Databases.

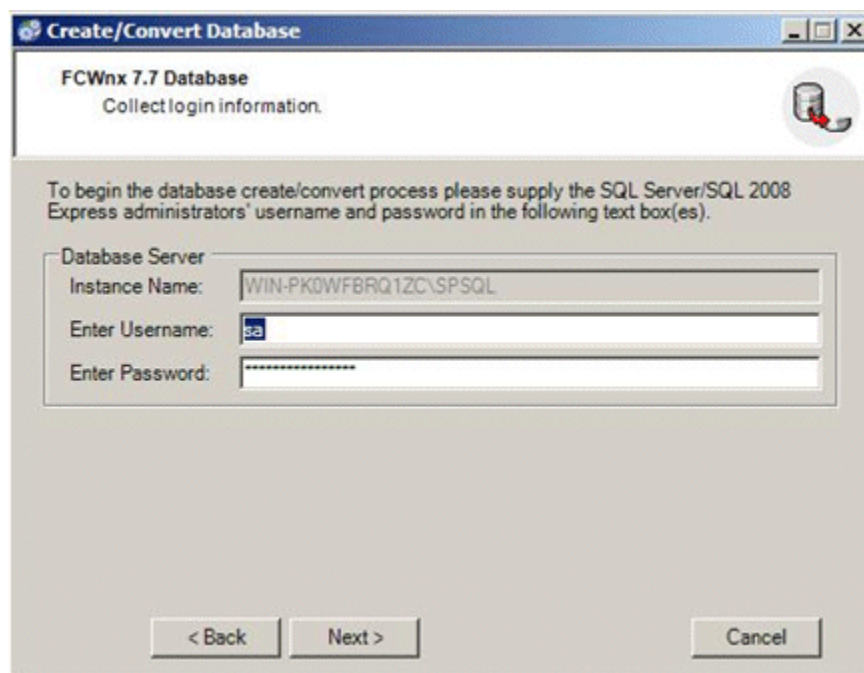
Figure 24: Select FCWnx Edition



3. Enter the SQL Server password for the 'sa' user. (This password was created during installation of Microsoft SQL. Refer to "Installing Microsoft SQL Server" on page 16.)

Note: If you purchased your Facility Commander Wnx system from UTC Fire & Security, a temporary password of SecurityMaster08 (case sensitive) was assigned for you.

Figure 25: Create/Convert Database window

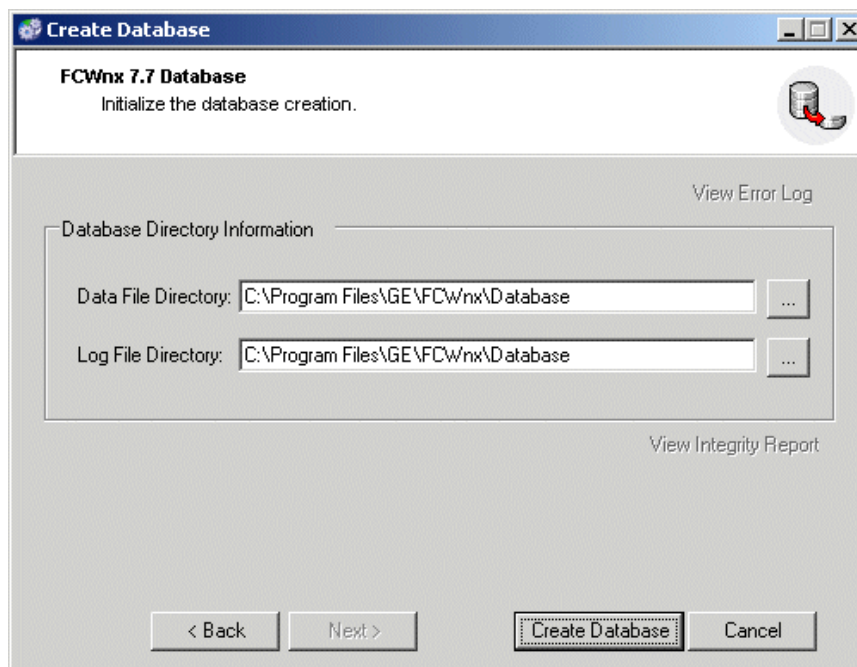


4. Click Next to continue. The Database Directory Information window opens, as shown in Figure 26 on page 49.

The default directories are indicated. Each Facility Commander Wnx database consists of data files and transaction logs. You have an option to place those components in different physical locations. You may consider this if your IT Department has certain policies regarding database installation. Consult with your IT Department for assistance.

- Data File Directory: The Data File Directory field displays the default directory. Accept the default as displayed or click the Browse button and browse to any folder location where data files will be stored.
- Log File Directory: The Log File Directory field displays the default directory. Accept the default or click the Browse button and browse to the folder location where database log files will be stored.

Note: This refers to the database logs; this does NOT refer to the Facility Commander Wnx logs.

Figure 26: FCWnx Database window

5. Review the Database Directory Information. If acceptable, click Create Database. The database creation begins and a progress bar is displayed. This may take a few minutes. When the database creation is complete, a message displays informing you that the database was successfully created/converted.

Note: A log file is created when the Create Database program is run. The log file, called 'SPCreateDB.txt' is found in the Logs folder. The Integrity utility runs automatically, following a database creation. No user interaction is required. Refer to your Facility Commander Wnx Online Help for additional information about the Integrity utility.

6. Click OK. The dialog box closes.
7. When the Facility Commander Wnx has been successfully installed window opens, click Finish. The FCWnx License Setup window opens.
8. Continue with "Licensing Facility Commander" on page 107.

2. Database server and file server configuration

Components	Computer 1	Computer 2	Computer 3
Database server	X		
File server	X		
FCWnx client application		X	

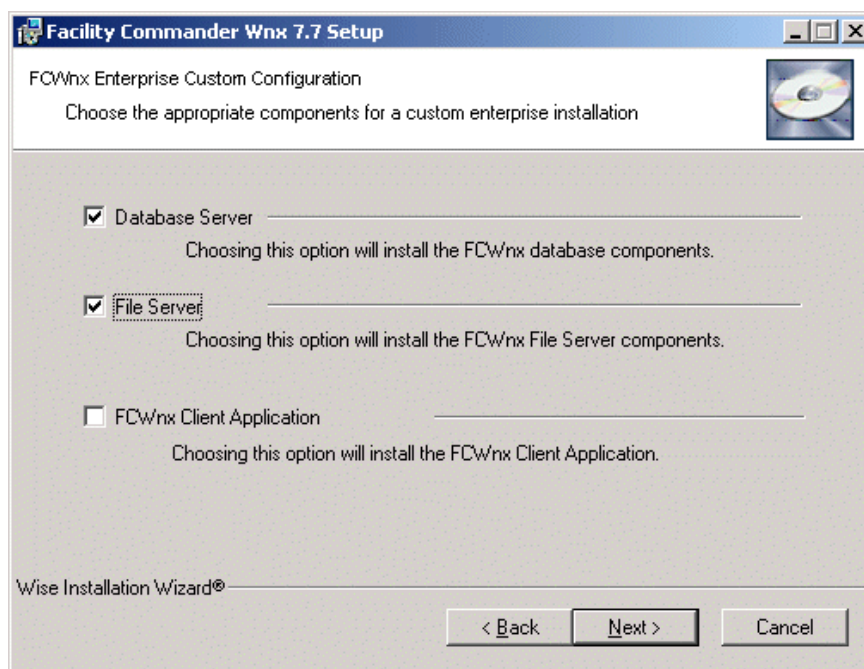
Note: This configuration has the database server and the file server installed on Computer 1, then the FCWnx client application is installed on Computer 2.

Database server and file server on first computer

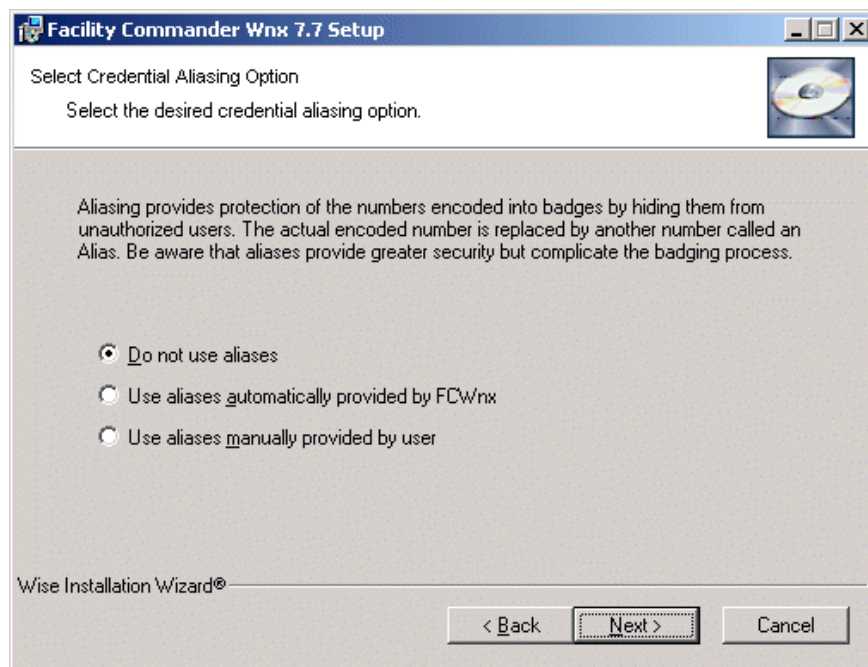
To install the database server and file server configuration:

1. On the FCWnx Enterprise Custom Configuration window, select Database Server and File Server. Click Next.

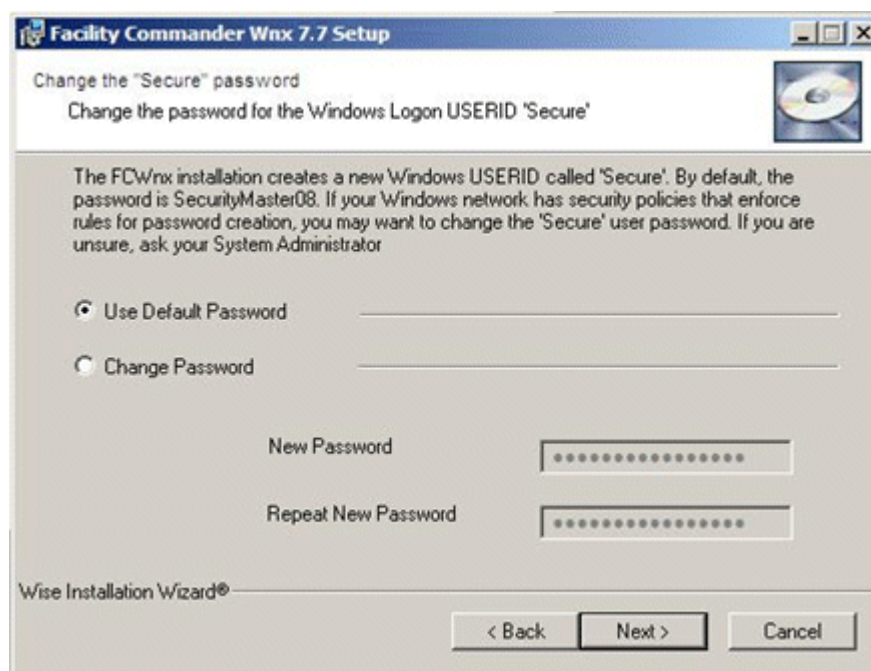
Figure 27: FCWnx Enterprise Custom Configuration - Database Server and file server



2. The Select Credential Aliasing Option window opens as shown in Figure 28 on page 51.

Figure 28: Credential Aliasing window

3. This feature allows you to assign a credential number that represents the encoded credential number. This provides added security in that the encoded number is only displayed to authorized users.
 - Do not use aliases indicates no aliasing will be used.
 - Use aliases automatically provided by FCWnx assigns the credential number for you.
 - Use aliases manually provided by user aliasing allows you to assign the number.
4. Choose one aliasing option, and then click Next. The Change the 'secure' Password window opens, as shown in Figure 29 on page 52.
5. The Facility Commander Wnx installation creates a new Windows User ID called secure. By default, the password is SecurityMaster08 (case sensitive). If your Windows network has security policies that enforce rules for password creation, you may need to change the secure user password. If you are unsure, ask your system administrator. Select one of the following:
 - Use Default Password
 - Change Password (If you select this option, enter your new password and then enter a second time.)

Figure 29: Change the 'secure' Password window

6. Click Next. The Ready to Install the Application window opens.

7. Enter the SQL Server password for the 'sa' user.

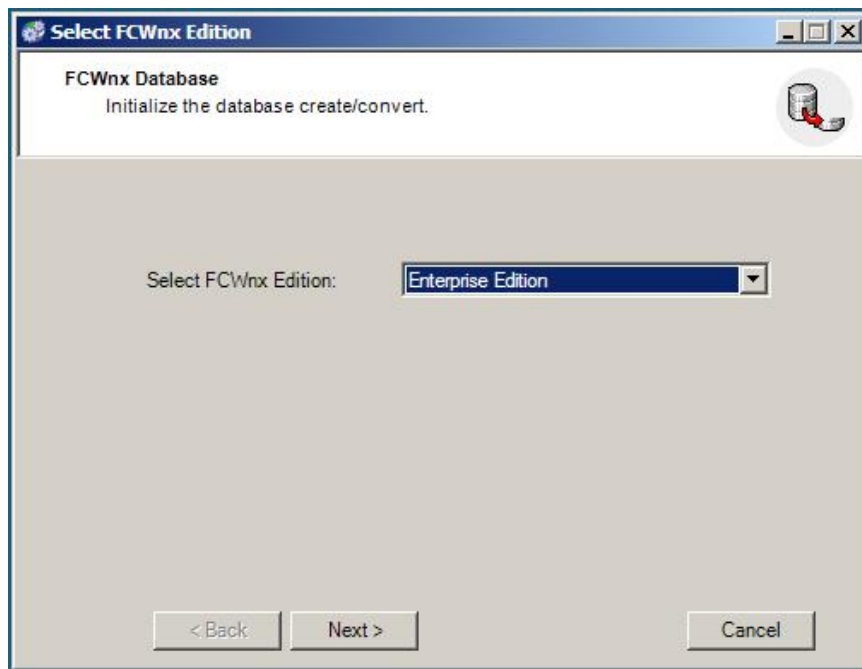
The default Destination Folder is indicated. You may want to install to another location. Click Browse to navigate to the program folder of your choice for placement of Facility Commander Wnx files.

8. Click Next to continue. Facility Commander Wnx copies system files, updates the system configuration, and displays the Facility Commander Wnx icon on your desktop. This may take a few minutes.

9. When the Facility Commander Wnx has been successfully installed window opens, click Finish. The Select Facility Commander Wnx Edition window opens.

To select a Facility Commander Wnx edition:

1. From the drop-down list of Facility Commander Wnx editions, select Enterprise Edition, as shown in Figure 30 on page 53.

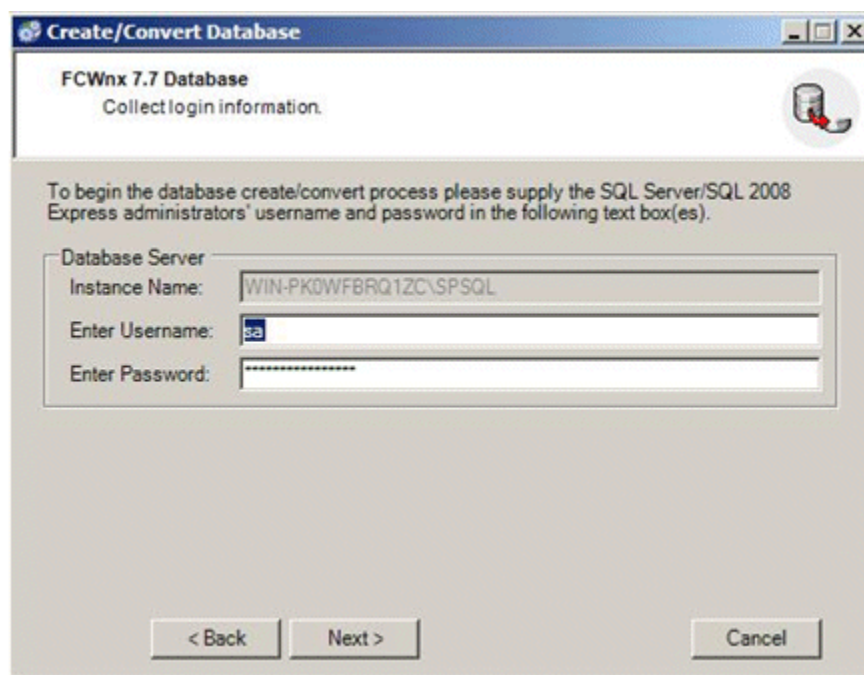
Figure 30: Select FCWnx Edition

2. Click Next.

To create a database:

1. The Create/Convert Database window opens, as shown in Figure 31 on page 54.

Note: We recommend that you *do not* select Cancel in this window. However, if you must exit at this time and plan to create your database at another time, refer to “Installing Microsoft SQL Server” on page 16 to complete a database creation outside of the installation sequence, from the Run menu.

Figure 31: Create/Convert Database window

2. Enter the SQL Server password for the 'sa' user. (This password was created during installation of Microsoft SQL. Refer to "Installing Microsoft SQL Server" on page 16.)

Note: If you purchased your Facility Commander Wnx system from UTC Fire & Security, a temporary password of SecurityMaster08 (case sensitive) was assigned for you.

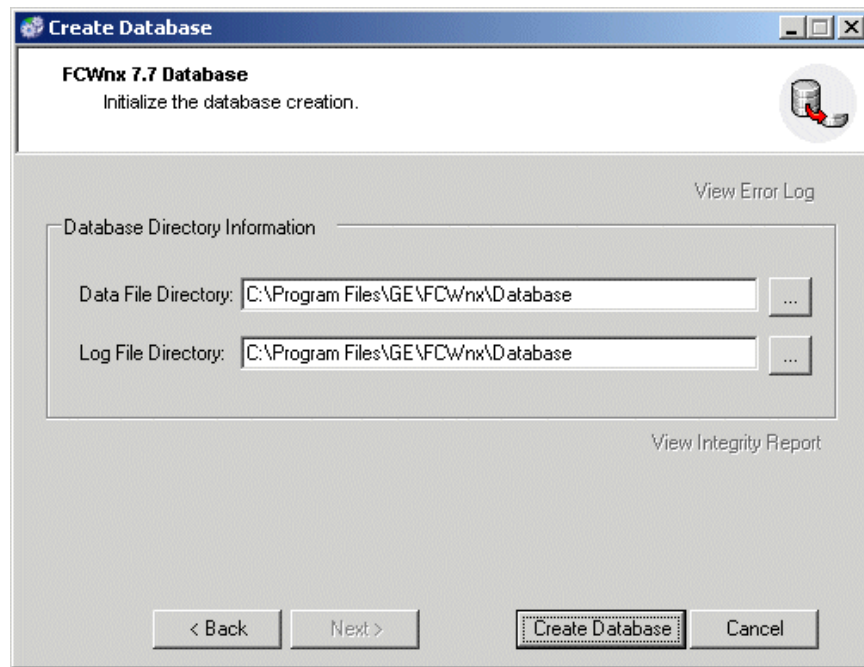
3. Click Next to continue. The Database Directory Information window opens, as shown in Figure 32 on page 55.

The default directories are indicated. Each Facility Commander Wnx database consists of data files and transaction logs. You have an option to place those components in different physical locations. You may consider this if your IT Department has certain policies regarding database installation. Consult with your IT Department for assistance.

- **Data File Directory:** The Data File Directory field displays the default directory. Accept the default as displayed or click the Browse button and browse to any folder location where data files will be stored.
- **Log File Directory:** The Log File Directory field displays the default directory. Accept the default or click the Browse button and browse to the folder location where database log files will be stored.

Note: This refers to the database logs; this does NOT refer to the Facility Commander Wnx logs.

Figure 32: FCWnx Database window



4. Review the Database Directory Information. If acceptable, click Create Database. The database creation begins and a progress bar is displayed. This may take a few minutes.

WARNING: If a database already exists, a warning message will display stating that you are about to overwrite your existing database with an empty default database.

5. When the database creation is complete, a message displays informing you that the database was successfully created/converted.

Note: A log file is created when the Create Database program is run. The log file, called 'SPCreateDB.txt' is found in the Logs folder. The Integrity utility runs automatically, following a database creation. No user interaction is required. Refer to your Facility Commander Wnx Online Help for addition information about the Integrity utility.

After creating your database:

1. Remove the Facility Commander Wnx installation disc, and continue with instructions to install FCWnx Client Application. Follow instructions for the operating system installed on second computer:

“If the computer is found, a window opens listing the shared folders on that computer.

If the computer is not found, you receive a message that the network path was not found.

Installing Facility Commander Wnx: Windows 7, Windows Vista, or Windows XP Professional additional client computer” on page 134

— or —

- “Windows 2003 or Windows 2008 Server operating system” below

FCWnx client application on second computer

Windows XP Professional, Windows Vista, or Windows 7 operating system

Note: Prerequisite: Database server installation and file server installation already complete. Continue with instructions as listed in Chapter 6 “Installing Facility Commander Wnx Software on additional clients” on page 131.

Windows 2003 or Windows 2008 Server operating system

Note: Prerequisite: Database server installation and file server installation already complete.

To install the FCWnx client application on the second computer using Windows 2003 or 2008:

1. Verify that the computer you are configuring meets minimum requirements.
2. If not already done, install the Windows 2003 or Windows 2008 operating system, but *do not* install Microsoft SQL.
3. You *must* be logged in as the local administrator user. If not, log off and log back on as a user with these permissions. If you are logging onto a domain environment, log off and log on as administrator to the local computer. (If the computer is a domain controller, log on as an administrator to the domain.)
4. Insert the FCWnx installation disc into the CD/DVD drive. When prompted, click Run autorun.exe.

If the disc does not launch, you must manually start the software. Using Windows Explorer (Window key-E), navigate to the FCWnx Installation disc and double-click autorun.exe.

5. The Facility Commander Wnx Main Menu opens. Click Install FCWnx v7.7.
6. The Facility Commander Wnx introduction page opens. Click Install.

A series of windows may display as the listed components automatically install if not already there. These components may cause the system to restart when a new version is installed. If your computer restarts, log on as Administrator and installation continues.

- .NET Framework
- Windows Installer

Note: On rare occasions when installing Facility Commander from a DVD drive, the installation will stall for approximately 10 to 20 minutes from the time you click Install to the time when the Welcome to Facility Commander Wnx 7.7 Installation Wizard page opens. If this occurs, it is most likely caused by your anti virus software. If you have anti virus software running, you must configure it so that the DVD drive is not scanned. Refer to the documentation that came with your anti virus software for details.

7. The Facility Commander Wnx installation processes updates on your system. When the latest versions of each component are updated and identified, Facility Commander Wnx installation begins, and the Welcome window opens. Continue with “Facility Commander Wnx software installation begins” below.

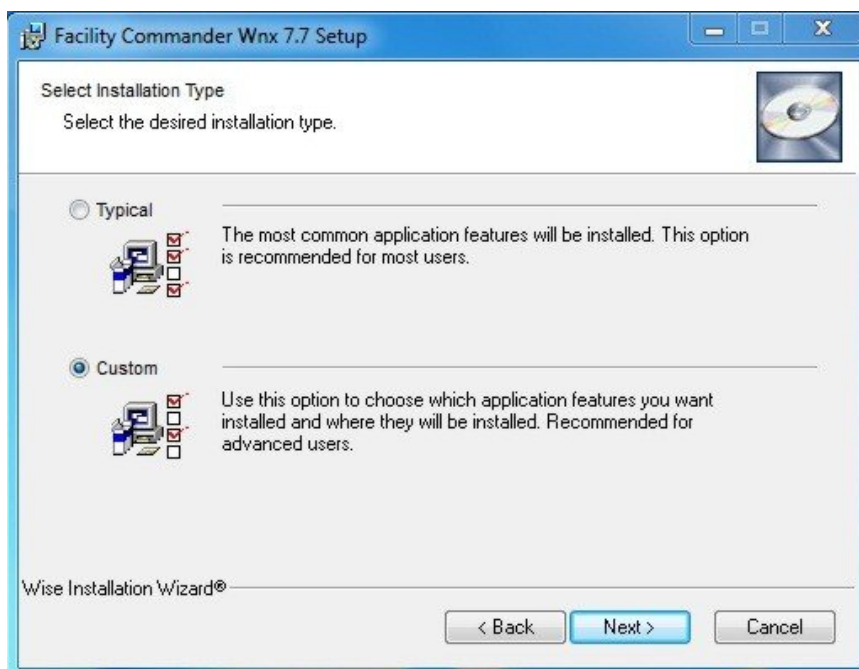
Facility Commander Wnx software installation begins

Note: A Cancel button displays on every FCWnx installation window. If you click Cancel at any time during the installation, the FCWnx installation process stops, but all Windows components that have been installed must be manually removed.

To install the Facility Commander Wnx application:

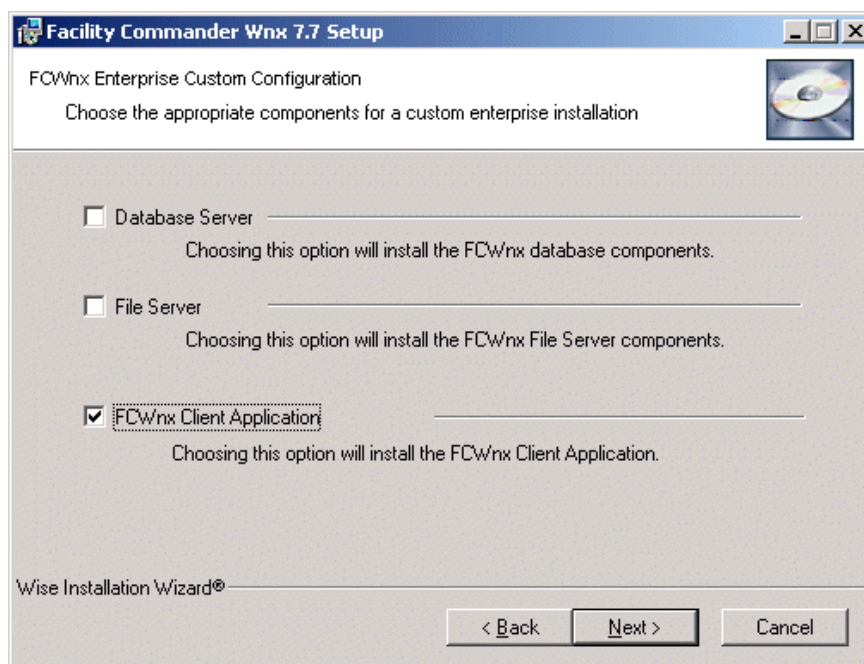
1. The Facility Commander Wnx Welcome window opens. Click Next. The License Agreement window opens.
2. Select I accept the license agreement, and then click Next.
3. When the Select Installation Type window opens, as shown in Figure 33, select the type of installation as Custom.

Figure 33: Select Installation Type - Custom



4. Click Next. The FCWnx Enterprise Custom Configuration window opens. Check *only* the check box for FCWnx Client Application, and then click Next.

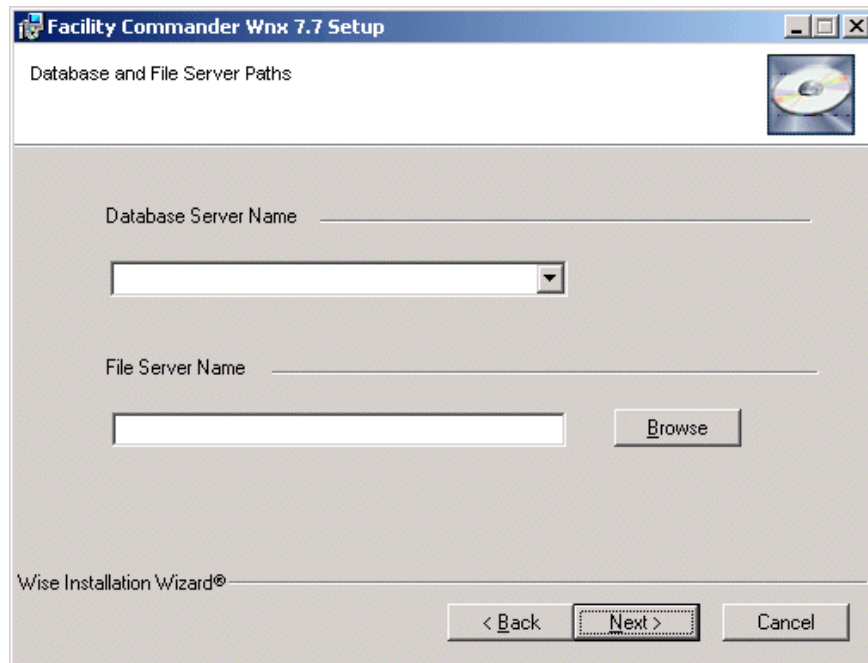
Figure 34: FCWnx Enterprise Custom Configuration - FCWnx Client Application



5. The Database and File Server window opens as shown in Figure 35 on page 59.

If the name displayed in Database Server Name is not appropriate, select the appropriate name from the drop-down list. If the name displayed in File Server Name is not appropriate, navigate to the File server computer for this client and select to display in the File Server Name dialog box.

Figure 35: Database and File Server Paths

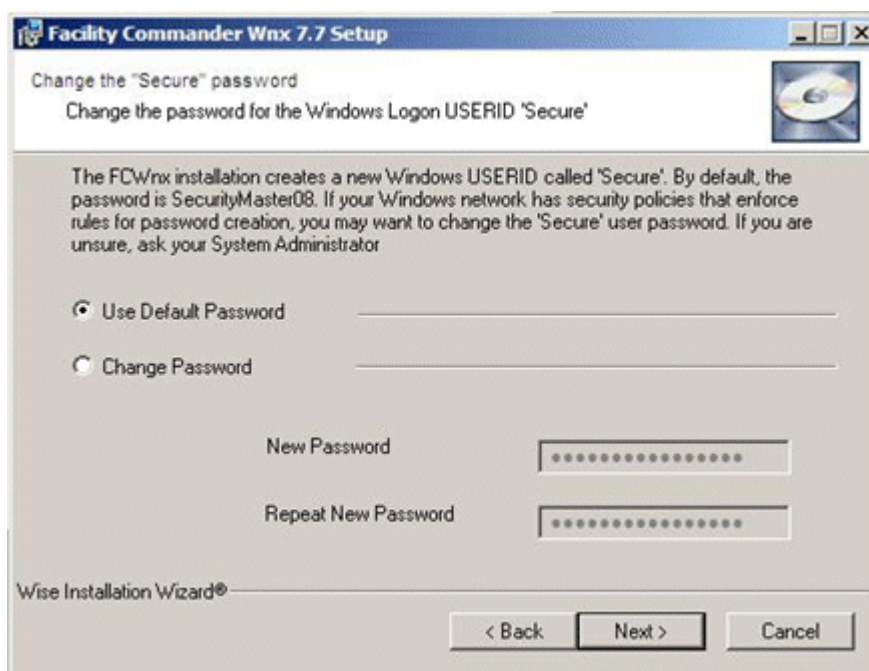


6. Click Next. The Change the “Secure” password window opens as shown in Figure 36 on page 60.

The Facility Commander Wnx installation creates a new Windows User ID called secure. By default, the password is SecurityMaster08 (case sensitive). If your Windows network has security policies that enforce rules for password creation, you may need to change the secure user password. If you are unsure, ask your system administrator. Select one of the following:

- Use Default Password
- Change Password (If you select this option, enter your new password and then enter a second time.)

Figure 36: Change the “Secure” Password window



7. Click Next. The Ready to Install the Application window opens. The default Destination Folder is indicated. You may want to install to another location. Click Browse to navigate to the program folder of your choice for placement of Facility Commander Wnx files.
8. Click Next to continue. Facility Commander Wnx copies system files, updates the system configuration, and displays the Facility Commander Wnx icon on your desktop. This may take a few minutes.
9. When the Facility Commander Wnx has been successfully installed window opens, click Finish. The FCWnx License Setup window opens.
10. Continue with “Licensing Facility Commander” on page 107.

3. Database server and FCWnx application configuration

Components	Computer 1	Computer 2	Computer 3
Database server	X		
File server		X	
FCWnx client application	X		

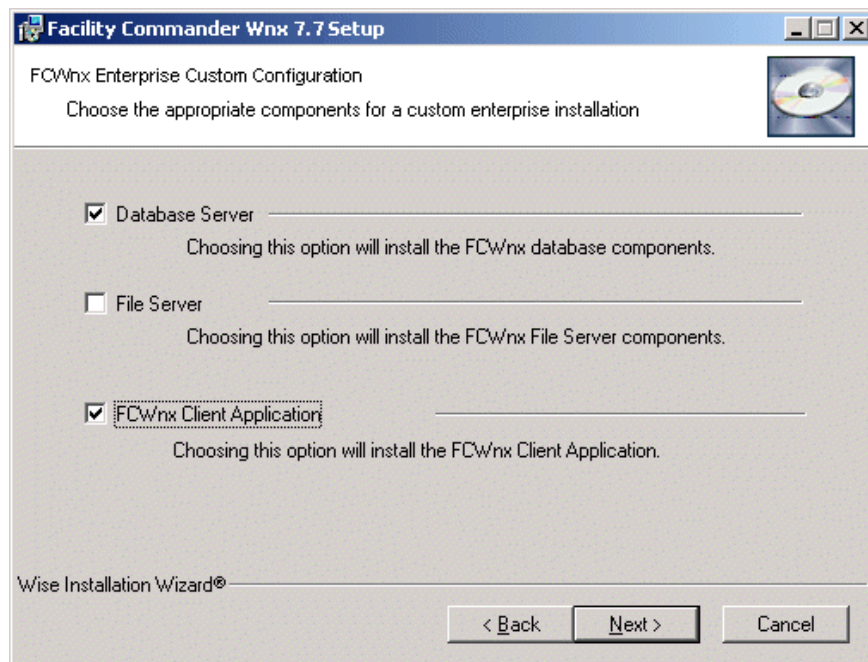
Note: This configuration has the database server and the FCWnx client application installed on Computer 1, while the file server is installed on Computer 2.

Database server and FCWnx client application on first computer

To install the database server and FCWnx client application on the first computer:

1. On the FCWnx Enterprise Custom Configuration window, select Database Server and FCWnx Client Application.

Figure 37: FCWnx Enterprise Custom Configuration - Database Server and FCWnx Client Application



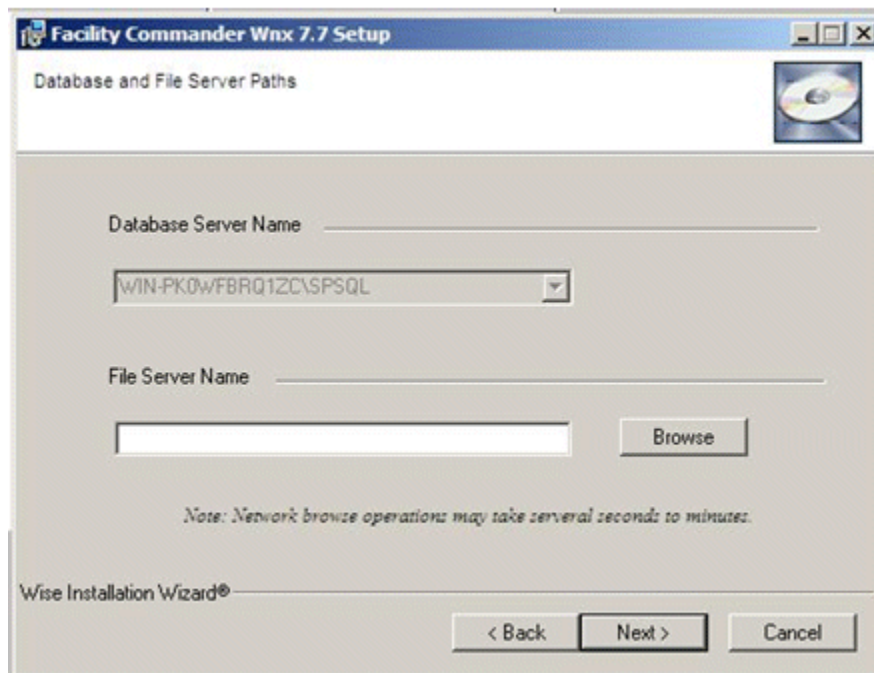
2. Click Next. The Database and File Server Paths window opens as shown in Figure 38 below.

On the Database and File Server Paths window, the Database Server Name displays as read-only. It is unavailable for entry. (If there is more than one Server with SPSQL, the Database Server Name field is enabled. Select the appropriate Server name.)

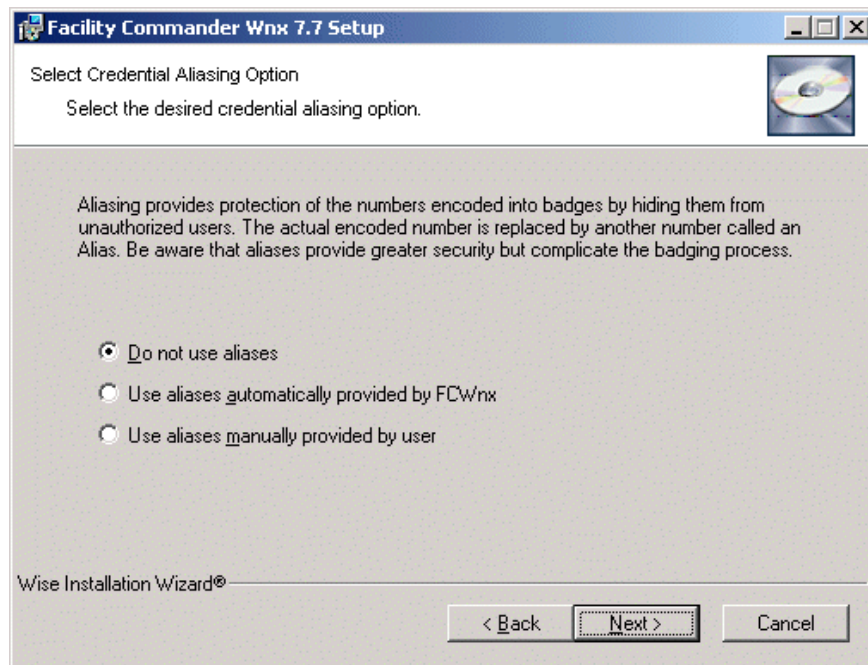
Click Browse to navigate to another computer that will serve as File Server for your system, and then select that computer to display the computer name in this dialog box.

Note: You must install File Server on the selected file server in your Facility Commander Wnx system before attempting to license any FCWnx application.

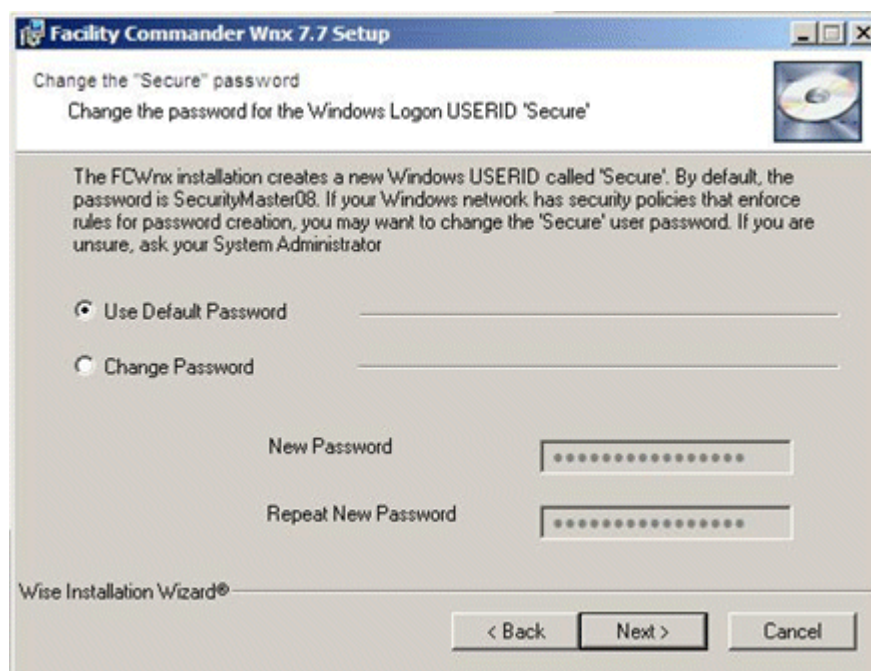
Figure 38: File Server Name Required



3. Click Next. The Select Credential Aliasing Option window opens, as shown in Figure 39 on page 63.

Figure 39: Credential Aliasing window

4. This feature allows you to assign a credential number that represents the encoded credential number. This provides added security in that the encoded number is only displayed to authorized users.
 - Do not use aliases indicates no aliasing will be used.
 - Use aliases automatically provided by FCWnx assigns the credential number for you.
 - Use aliases manually provided by user aliasing allows you to assign the number.
5. Choose one aliasing option, and then click Next. The Change the 'secure' password window opens, as shown in Figure 40 on page 64.

Figure 40: Change the 'secure' Password window

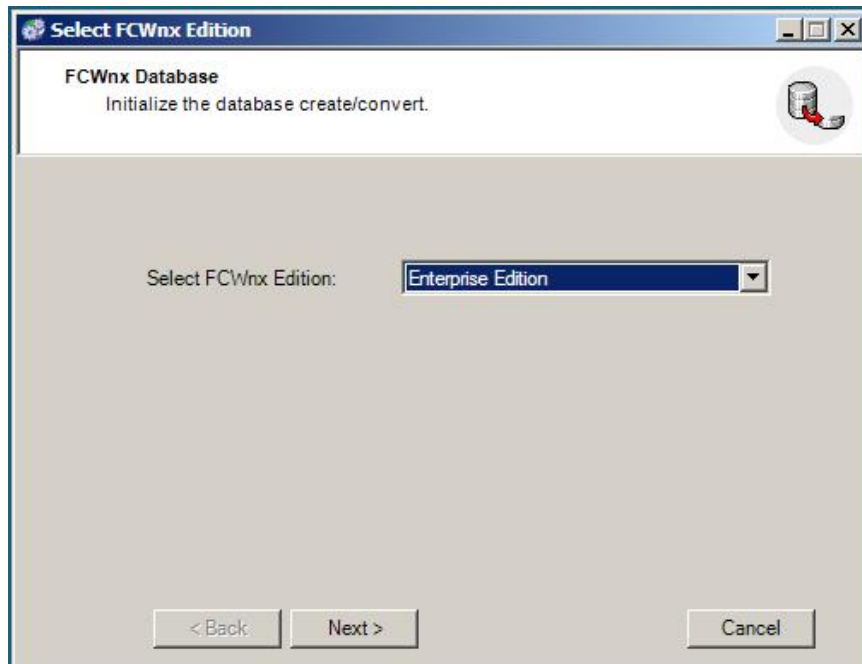
6. The Facility Commander Wnx installation creates a new Windows User ID called secure. By default, the password is SecurityMaster 08 (case sensitive). If your Windows network has security policies that enforce rules for password creation, you may need to change the secure user password. If you are unsure, ask your system administrator. Select one of the following:
 - Use Default Password
 - Change Password (If you select this option, enter your new password and then enter a second time.)
7. Click Next. The Ready to Install the Application window opens. Enter the SQL Server password for the 'sa' user. (This password was previously created during installation of SQL. Refer to "Installing Microsoft SQL Server" on page 16.

The default Destination Folder is indicated. You may want to install to another location. Click Browse to navigate to the program folder of your choice for placement of Facility Commander Wnx files.

8. Click Next to continue. Facility Commander Wnx copies system files, updates the system configuration, and displays the Facility Commander Wnx icon on your desktop. This may take a few minutes.
9. When the Facility Commander Wnx has been successfully installed window opens, click Finish. The Select Facility Commander Wnx Edition window opens.

To select a Facility Commander Wnx edition:

1. From the drop-down list of Facility Commander Wnx editions, select Enterprise Edition, as displayed in Figure 41 below.

Figure 41: Select FCWnx Edition

2. Click Next.

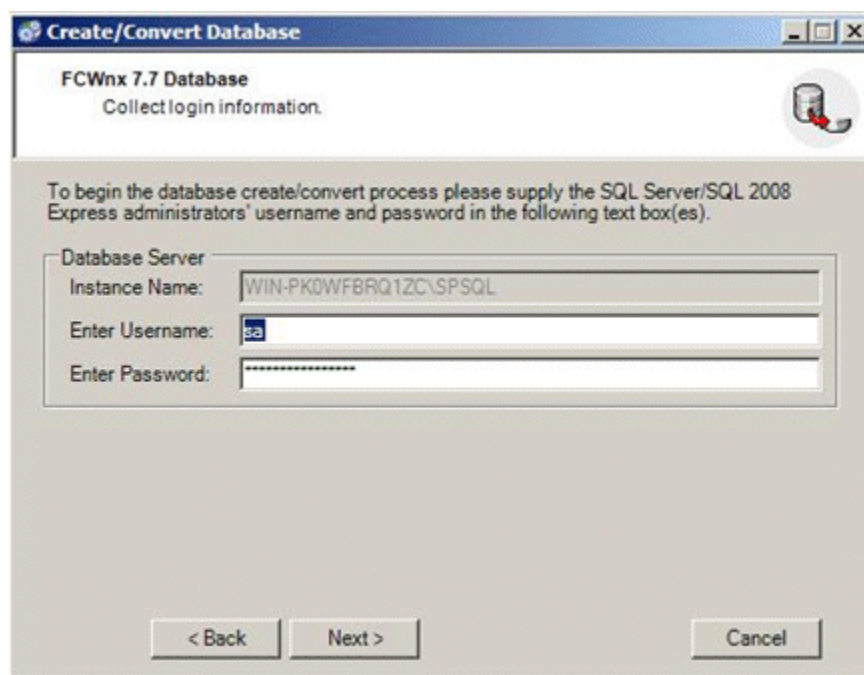
To create a database:

1. The Create/Convert Database window opens as shown in Figure 42 on page 66.

Note: We recommend that you *do not* select Cancel in this window. However, if you must exit at this time and plan to create your database at another time, you can do so by clicking Start, All Programs, Facility Commander Wnx, and then Create FCWnx Databases.

2. Enter the SQL Server password for the 'sa' user. (This password was created during installation of Microsoft SQL. Refer to "Installing Microsoft SQL Server" on page 16.)

Note: If you purchased your Facility Commander Wnx system from UTC Fire & Security, a temporary password of SecurityMaster08 (case sensitive) was assigned for you.

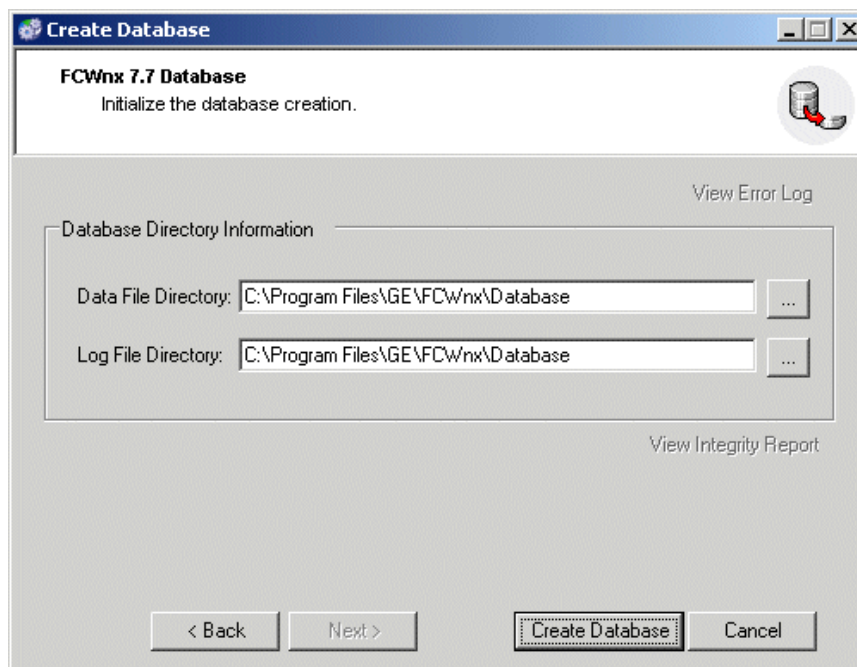
Figure 42: Create/Convert Database window

3. Click Next to continue. The Database Directory Information window opens, as shown in Figure 43 on page 67.

The default directories are indicated. Each Facility Commander Wnx database consists of data files and transaction logs. You have an option to place those components in different physical locations. You may consider this if your IT Department has certain policies regarding database installation. Consult with your IT Department for assistance.

- **Data File Directory:** The Data File Directory field displays the default directory. Accept the default as displayed or click the Browse button and browse to any folder location where data files will be stored.
- **Log File Directory:** The Log File Directory field displays the default directory. Accept the default or click the Browse button and browse to the folder location where database log files will be stored.

Note: This refers to the database logs; this does NOT refer to the Facility Commander Wnx logs.

Figure 43: FCWnx Database window

4. Review the Database Directory Information. If acceptable, click Create Database. The database creation begins and a progress bar is displayed. This may take a few minutes.

WARNING: If a database already exists, a warning message will display stating that you are about to overwrite your existing database with an empty default database.

5. When the database creation is complete, a message displays informing you that the database was successfully created/converted.

Note: A log file is created when the Create Database program is run. The log file, called 'SPCreateDB.txt' is found in the Logs folder. The Integrity utility runs automatically, following a database creation. No user interaction is required. Refer to your Facility Commander Wnx Online Help for addition information about the Integrity utility.

6. The License Setup window opens. You cannot license your system at this time. Click Cancel to exit License Setup.

After creating your database:

1. Click Yes to restart your system at this time. After the restart, log on as administrator.
2. Continue with configuration of the file server on a second Windows 2003 or Windows 2008 Standard server computer.

File server on second computer

Now, you must select and install *only* the file server component on a separate Windows 2003 or Windows 2008 Standard server computer:

Note: Prerequisite: Database server and FCWnx application installation already complete. If you do not install the file server at this time, you will not be able to license your system.

To install required components:

1. Verify that the computer you are configuring meets minimum requirements.
2. Install the operating system. *Do not* install Microsoft SQL.
3. You *must* log on to the computer as the local administrator user. If not, log off and log back on as a user with these permissions. If you are logging onto a domain environment, log off and log on as administrator to the local computer. (If the computer is a domain controller, log on as an administrator to the domain.)
4. Insert the FCWnx installation disc into the CD/DVD drive. When prompted, click Run autorun.exe.

If the disc does not launch, you must manually start the software. Using Windows Explorer (Window key-E), navigate to the FCWnx Installation disc and double-click autorun.exe.

5. The Facility Commander Wnx Main Menu opens. Click Install FCWnx v7.7.
6. The Facility Commander Wnx introduction page opens. Click Install.

A series of windows may display as the listed components automatically install if not already there. These components may cause the system to restart when a new version is installed. If your computer restarts, log on as Administrator and installation continues.

- .NET Framework
- Windows Installer

Note: On rare occasions when installing Facility Commander from a DVD drive, the installation will stall for approximately 10 to 20 minutes from the time you click Install to the time when the Welcome to Facility Commander Wnx 7.7 Installation Wizard page opens. If this occurs, it is most likely caused by your anti virus software. If you have anti virus software running, you must configure it so that the DVD drive is not scanned. Refer to the documentation that came with your anti virus software for details.

7. The Facility Commander Wnx installation processes updates on your system. When the latest versions of each component are updated and identified, Facility Commander Wnx installation begins, and the Welcome window opens. Continue with “Facility Commander Wnx software installation begins” on page 35.

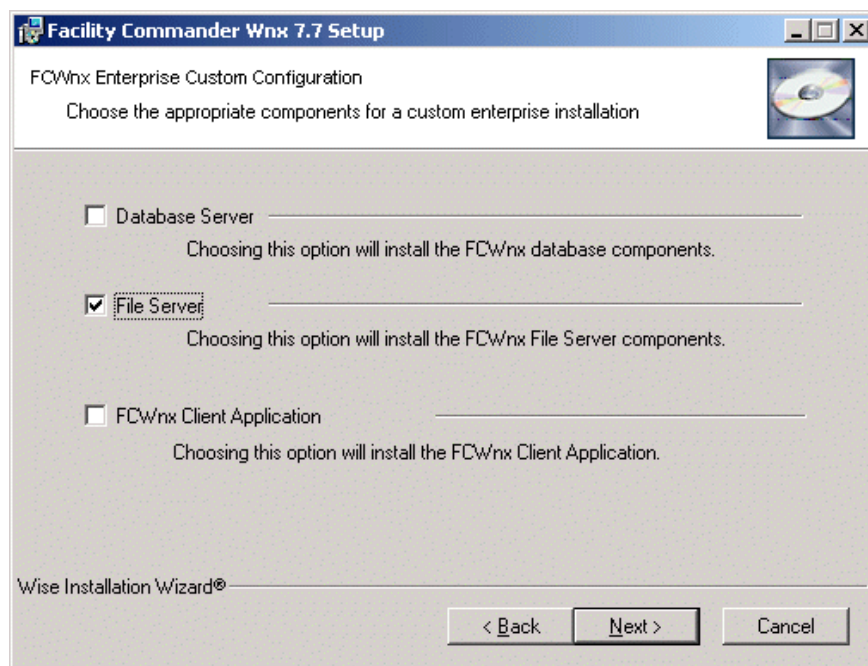
Facility Commander Wnx software installation begins

Note: A Cancel button displays on every FCWnx installation window. If you click Cancel at any time during the installation, the FCWnx installation process stops, but all Windows components that have been installed must be manually removed.

To install the Facility Commander Wnx application:

1. The Facility Commander Wnx Welcome window opens. Click Next.
2. When the License Agreement window opens, select I accept the license agreement, and then click Next.
3. Select the type of installation as Custom, and then click Next. The Custom Configuration window opens as shown in Figure 44 below.

Figure 44: FCWnx Enterprise Custom Configuration - File server



4. Select only File Server, and then click Next. The Change the ‘secure’ password window opens, as shown in Figure 45 on page 70.

The Facility Commander Wnx installation creates a new Windows User ID called secure. By default, the password is SecurityMaster08 (case sensitive). If your Windows network has security policies that enforce rules for password creation, you may need to change the secure user password. If you are unsure, ask your system administrator.

Figure 45: Change the 'secure' Password window



5. Select one of the following:
 - Use Default Password
 - Change Password (If you select this option, enter your new password and then enter a second time.)
6. Click Next. The Ready to Install the Application window opens. You may want to install to another location. Click Browse to navigate to the program folder of your choice for placement of Facility Commander Wnx files.
7. Click Next to continue. Facility Commander Wnx copies system files and updates the system configuration. This may take a few minutes.
8. When the Facility Commander Wnx has been successfully installed window opens, click Finish.
9. You will need to license at this time. Continue with "Licensing Facility Commander" on page 107.

4. Database server configuration

Components	Computer 1	Computer 2	Computer 3
Database server	X		
File server		X	
FCWnx client application		X	

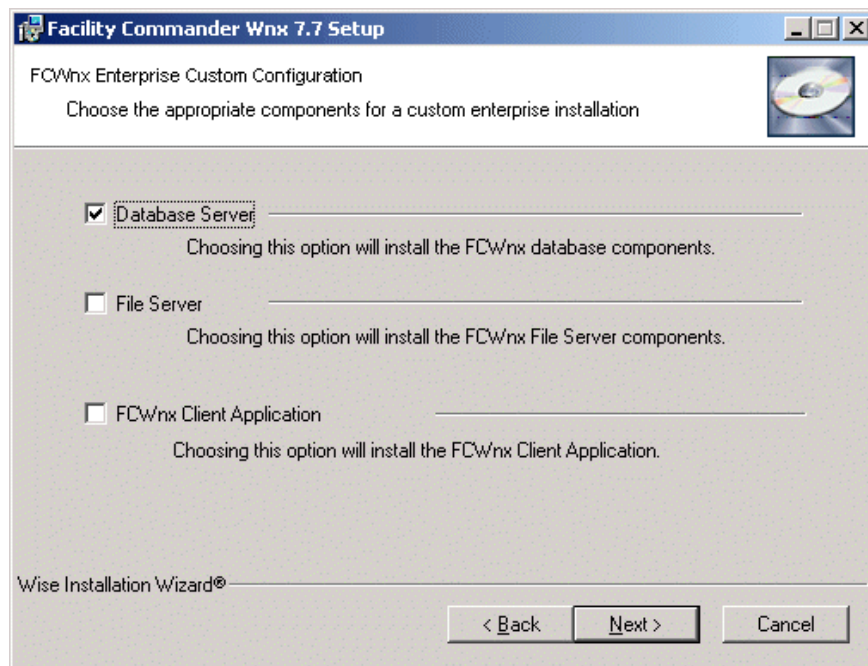
Note: This configuration has the database server installed on Computer 1, then the file server and the FCWnx client application are installed on Computer 2.

Database server on first computer

To install the database server on the first computer:

1. On the FCWnx Enterprise Custom Configuration window, select Database Server. Click Next.

Figure 46: FCWnx Enterprise Custom Configuration - Database Server



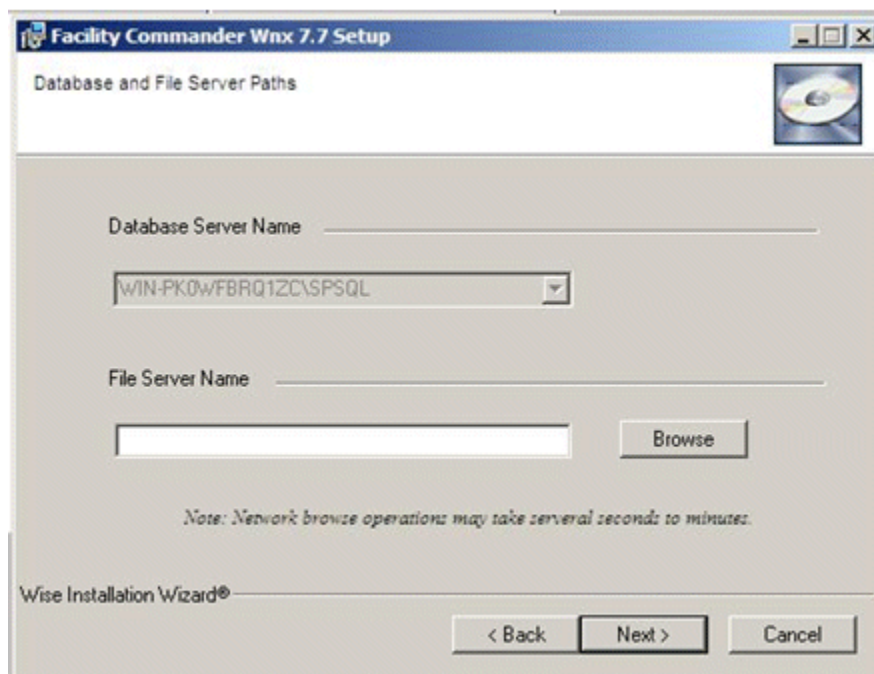
2. The Database and File Server window opens as shown in Figure 47 on page 72.

On the Database and File Server Paths window, the Database Server Name opens as read-only. It is unavailable for entry.

Enter the computer name or click Browse to navigate to the File server computer for your system, and then select the computer to display the name in this field.

Note: You must install the File Server component on the selected file server in your Facility Commander Wnx system before attempting to license any FCWnx application.

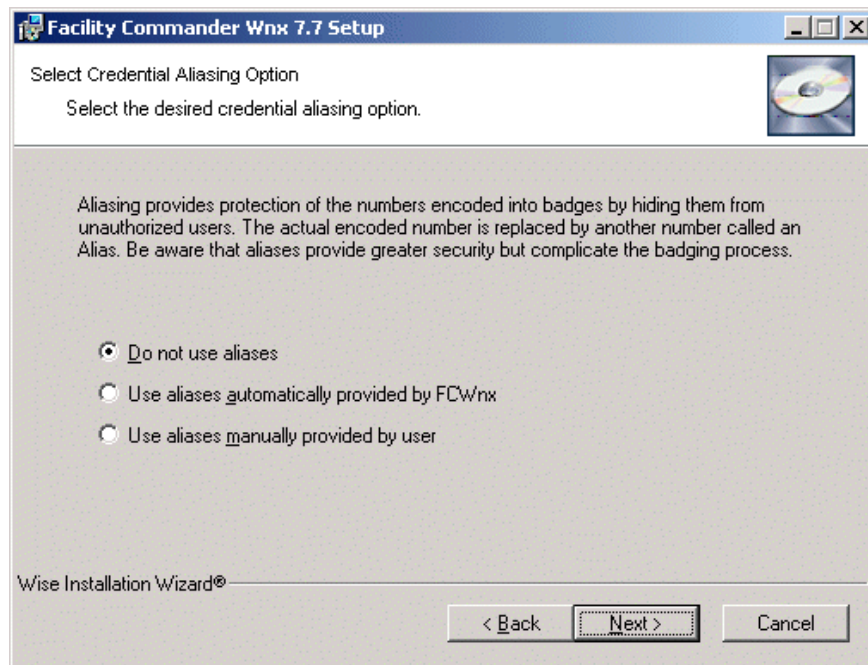
Figure 47: File Server Name Required



3. Click Next. The Select Credential Aliasing Option window opens, as shown in Figure 48 on page 73.

This feature allows you to assign a credential number that represents the encoded credential number. This provides added security in that the encoded number is only displayed to authorized users.

- Do not use aliases indicates no aliasing will be used.
- Use aliases automatically provided by FCWnx assigns the credential number for you.
- Use aliases manually provided by user aliasing allows you to assign the number.

Figure 48: Credential Aliasing window

4. Choose one aliasing option, and then click Next. The Change the 'secure' password window opens, as shown in Figure 49 below.

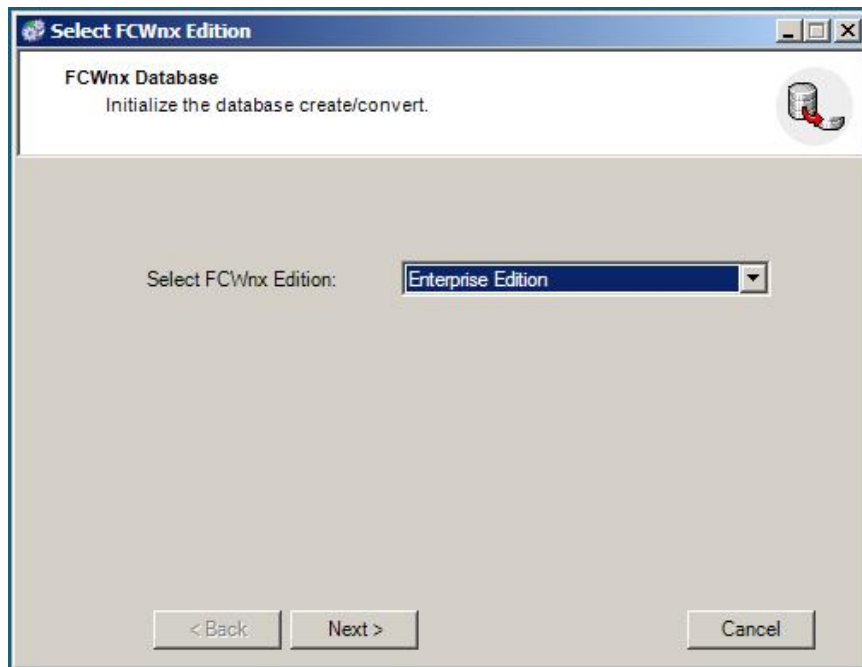
Figure 49: Change the 'secure' Password window

5. The Facility Commander Wnx installation creates a new Windows User ID called secure. By default, the password is SecurityMaster08 (case sensitive). If your Windows network has security policies that enforce rules for password creation, you may need to change the secure user password. If you are unsure, ask your system administrator. Select one of the following:
 - Use Default Password
 - Change Password (If you select this option, enter your new password and then enter a second time.)
6. Click Next. The Ready to Install the Application window opens. Enter the SQL Server password for the 'sa' user. (This password was previously created during installation of SQL. Refer to "Installing Microsoft SQL Server" on page 16.

The default Destination Folder is indicated. You may want to install to another location. Click Browse to navigate to the program folder of your choice for placement of Facility Commander Wnx files.
7. Click Next to continue. Facility Commander Wnx copies system files and updates the system configuration. This may take a few minutes.
8. When the Facility Commander Wnx has been successfully installed window opens, click Finish.
9. Remove the installation disc from the CD/DVD drive. The Select Facility Commander Wnx Edition window opens.

To select a Facility Commander Wnx edition:

1. From the drop-down list of Facility Commander Wnx editions, select Enterprise Edition, as shown in Figure 50 on page 75.

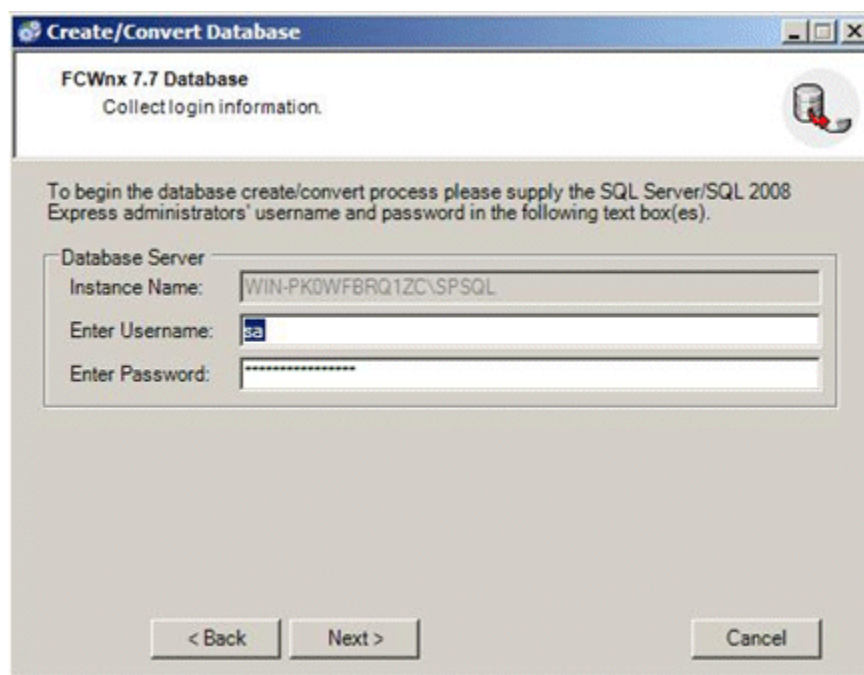
Figure 50: Select FCWnx Edition

2. Click Next.

To create a database:

1. The Create/Convert Database window opens, as shown in Figure 51 on page 76.

Note: We recommend that you *do not* select Cancel in this window. However, if you must exit at this time and plan to create your database at another time, you can do so by clicking Start, All Programs, Facility Commander Wnx, and then Create FCWnx Databases.

Figure 51: Create/Convert Database window

2. Enter the SQL Server password for the 'sa' user. (This password was created during installation of Microsoft SQL. Refer to "Installing Microsoft SQL Server" on page 16.)

Note: If you purchased your Facility Commander Wnx system from UTC Fire & Security, a temporary password of SecurityMaster08 (case sensitive) was assigned for you.

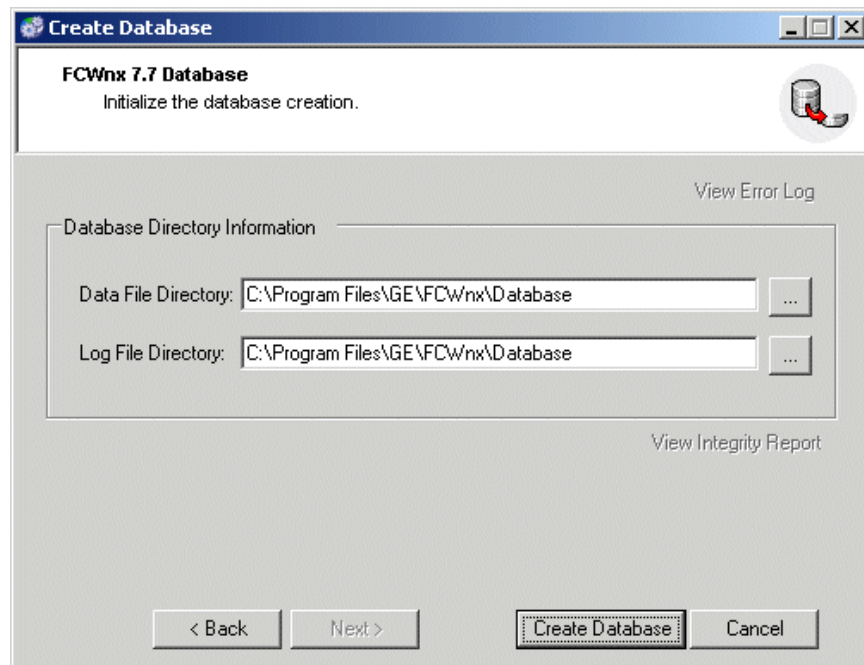
3. Click Next to continue. The Database Directory Information window opens, as shown in Figure 52 on page 77.

The default directories are indicated. Each Facility Commander Wnx database consists of data files and transaction logs. You have an option to place those components in different physical locations. You may consider this if your IT Department has certain policies regarding database installation. Consult with your IT Department for assistance.

- **Data File Directory:** The Data File Directory field displays the default directory. Accept the default as displayed or click the Browse button and browse to any folder location where data files will be stored.
- **Log File Directory:** The Log File Directory field displays the default directory. Accept the default or click the Browse button and browse to the folder location where database log files will be stored.

Note: This refers to the database logs; this does NOT refer to the Facility Commander Wnx logs.

Figure 52: FCWnx Database window



4. Review the Database Directory Information. If acceptable, click Create Database. The database creation begins and a progress bar is displayed. This may take a few minutes.

WARNING: If a database already exists, a warning message will display stating that you are about to overwrite your existing database with an empty default database.

5. When the database creation is complete, a message displays informing you that the database was successfully created/converted.

Note: A log file is created when the Create Database program is run. The log file, called 'SPCreateDB.txt' is found in the Logs folder. The Integrity utility runs automatically, following a database creation. No user interaction is required. Refer to your Facility Commander Wnx Online Help for addition information about the Integrity utility.

6. Click OK.

File server and FCWnx client application on second computer

After creating your database, you are ready and must install file server and FCWnx client application on a separate Windows 2003 or Windows 2008 Standard server computer:

Note: Prerequisite: Database server installation already complete.

To install required components:

1. Verify that the computer you are configuring meets minimum requirements.
2. Install the operating system. *Do not* install Microsoft SQL.
3. You *must* log on to the computer as the local administrator user. If not, log off and log back on as a user with these permissions. If you are logging onto a domain environment, log off and log on as administrator to the local computer. (If the computer is a domain controller, log on as an administrator to the domain.)
4. Insert the FCWnx installation disc into the CD/DVD drive. When prompted, click Run autorun.exe.

If the disc does not launch, you must manually start the software. Using Windows Explorer (Window key-E), navigate to the FCWnx Installation disc and double-click autorun.exe.

5. The Facility Commander Wnx Main Menu opens. Click Install FCWnx v7.7.
6. The Facility Commander Wnx introduction page opens. Click Install.

A series of windows may display as the listed components automatically install if not already there. These components may cause the system to restart when a new version is installed. If your computer restarts, log on as Administrator and installation continues.

- .NET Framework
- Windows Installer

Note: On rare occasions when installing Facility Commander from a DVD drive, the installation will stall for approximately 10 to 20 minutes from the time you click Install to the time when the Welcome to Facility Commander Wnx 7.7 Installation Wizard page opens. If this occurs, it is most likely caused by your anti virus software. If you have anti virus software running, you must configure it so that the DVD drive is not scanned. Refer to the documentation that came with your anti virus software for details.

7. The Facility Commander Wnx installation processes updates on your system. When the latest versions of each component are updated and identified, Facility Commander Wnx installation begins. The Welcome window opens. Continue with “The Facility Commander Wnx software installation begins” on page 79.

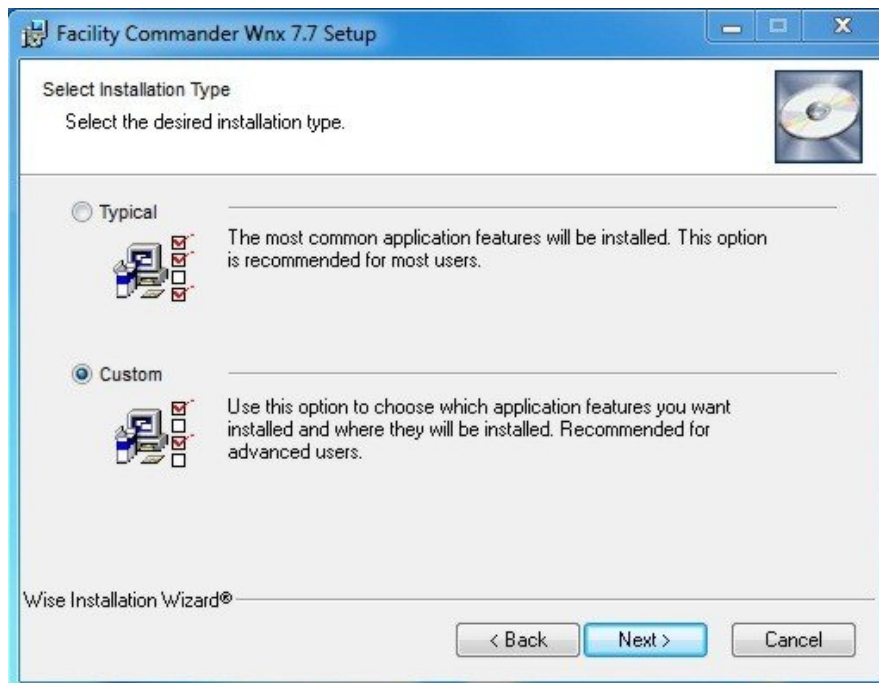
The Facility Commander Wnx software installation begins

Note: A Cancel button displays on every FCWnx installation window. If you click Cancel at any time during the installation, the FCWnx installation process stops, but all Windows components that have been installed must be manually removed.

To install the Facility Commander Wnx application:

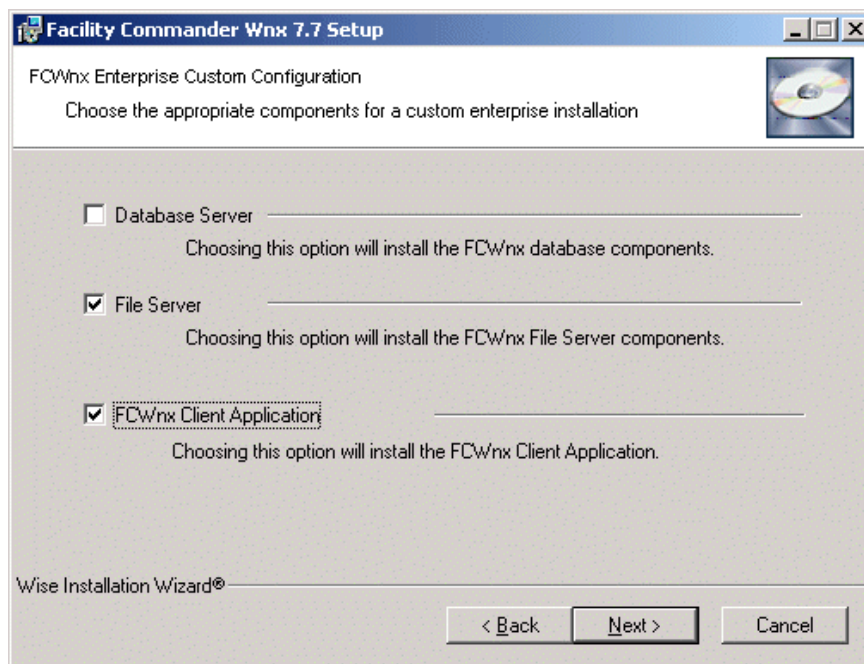
1. The Facility Commander Wnx Welcome window opens. Click Next.
2. When the License Agreement window opens, select I accept the license agreement, and then click Next.
3. When the Select Installation Type window opens, as shown in Figure 53 below, select the type of installation as Custom, and then click Next.

Figure 53: Selection Installation Type - Custom



4. On the FCWnx Enterprise Custom Configuration window, select File Server and FCWnx Client Application.

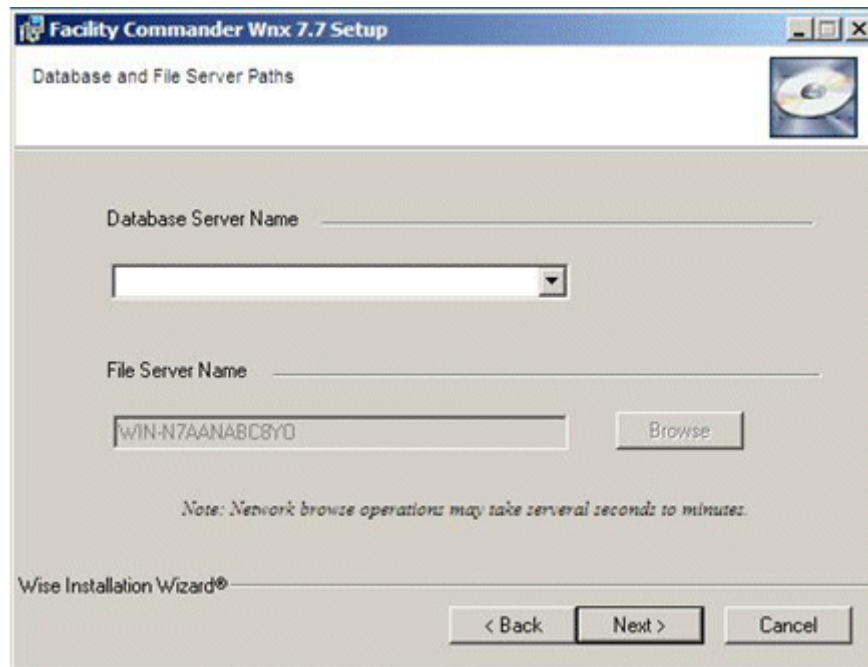
Figure 54: FCWnx Enterprise Custom Configuration - File Server and FCWnx Client Application



5. Click Next. The Database and File Server Paths window opens as shown in Figure 55 on page 81.

The Database Server Name field is available and required. Select a Server Name from the drop-down list of eligible SQL Servers for this installation.

The File Server Name is a read-only field and is unavailable for selection.

Figure 55: Database Server Name Required

6. Click Next. The Change the 'Secure' password window opens, as shown in Figure 56 below.

Figure 56: Change the 'secure' Password window

7. The Facility Commander Wnx installation creates a new Windows User ID called secure. By default, the password is SecurityMaster08 (case sensitive). If your Windows network has security policies that enforce rules for password creation, you may need to change the secure user password. If you are unsure, ask your system administrator.

Select one of the following:

- Use Default Password
- Change Password (If you select this option, enter your new password and then enter a second time.)

8. Click Next to continue. The Ready to Install the Application window opens.

The default Destination Folder is indicated. You may want to install to another location. Click Browse to navigate to the program folder of your choice for placement of Facility Commander Wnx files.

9. Click Next to continue. Facility Commander Wnx copies system files, updates the system configuration, and displays the Facility Commander Wnx icon on your desktop. This may take a few minutes.

10. When the Facility Commander Wnx has been successfully installed window opens, click Finish. The FCWnx License Setup window opens.

11. Continue with “Licensing Facility Commander” on page 107.

5. Each component on a separate computer

Components	Computer 1	Computer 2	Computer 3
Database server	X		
File server		X	
FCWnx client application			X

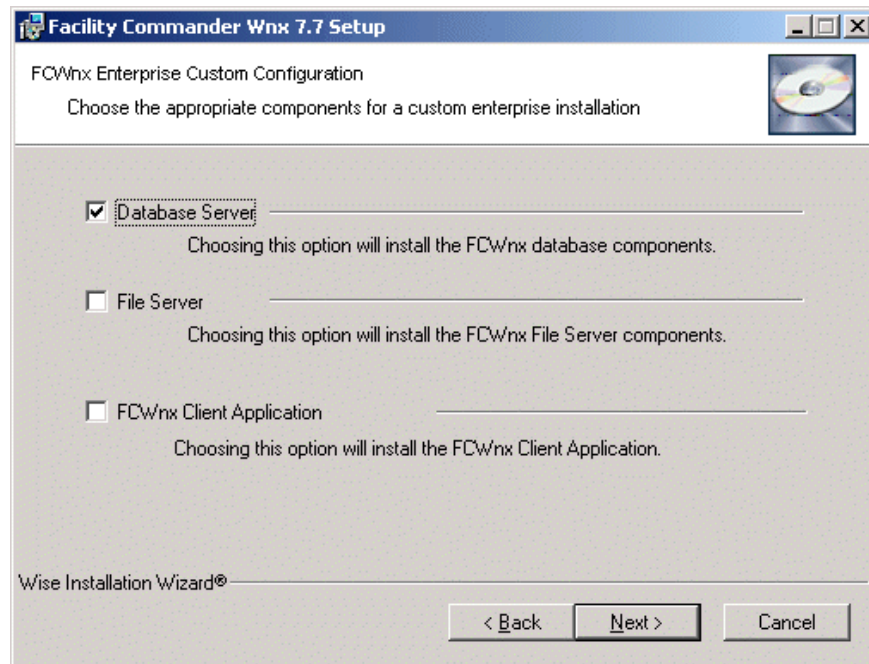
Note: This configuration has the database server installed on Computer 1, the file server installed on Computer 2, and the FCWnx client application installed on Computer 3.

Database server on first computer

To install each Facility Commander Wnx component to a separate computer, you must begin with the database server installation on the first computer.

To install the database server on the first computer:

1. On the FCWnx Enterprise Custom Configuration window, check the check box for *only* Database Server.

Figure 57: FCWnx Enterprise Custom Configuration - Database Server

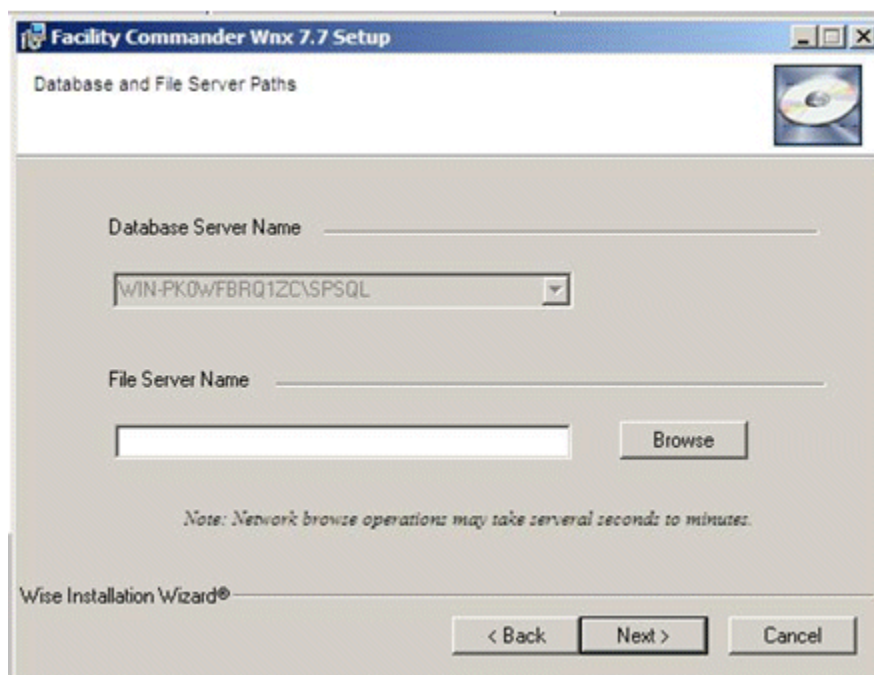
2. Click Next. The Database and FileServer Paths window opens as shown in Figure 58 on page 84.

At the Database and FileServer Paths window, the Database Server Name displays as read-only. It is unavailable for entry.

Click Browse to navigate to the File server computer you will be using for your system, and then select the computer name to display the computer name in this dialog box.

Note: You must install file server on the selected file server in your Facility Commander Wnx system before attempting to license any Facility Commander Wnx application.

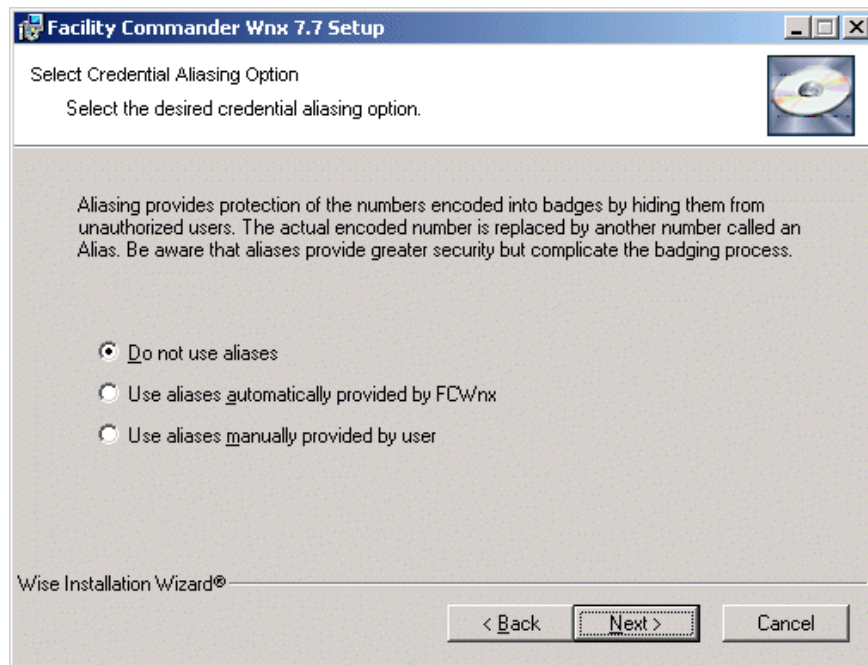
Figure 58: File Server Name Required



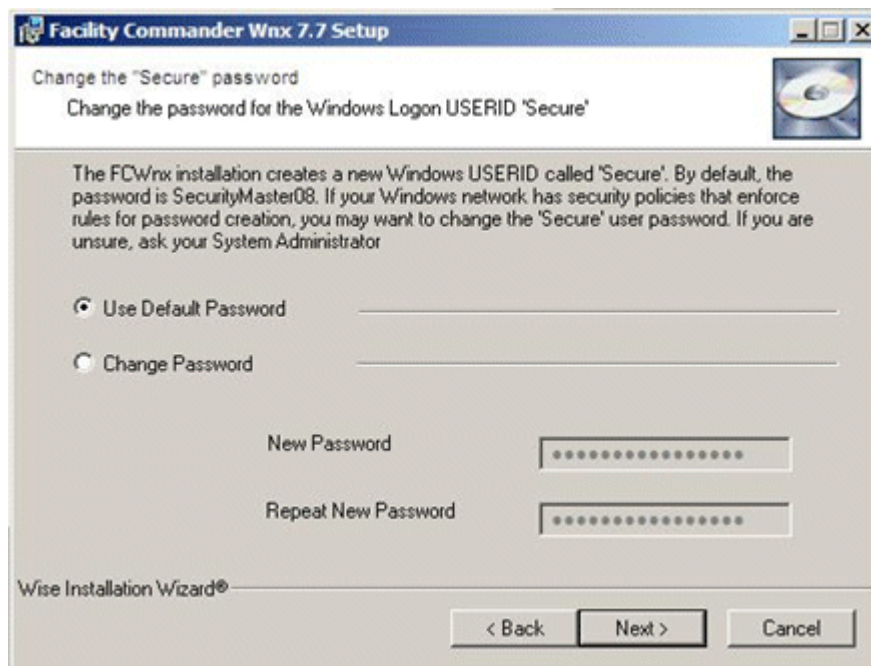
3. Click Next. The Select Credential Aliasing Option window opens, as shown in Figure 59 on page 85.

This feature allows you to assign a credential number that represents the encoded credential number. This provides added security in that the encoded number is only displayed to authorized users.

- Do not use aliases indicates no aliasing will be used.
- Use aliases automatically provided by FCWnx assigns the credential number for you.
- Use aliases manually provided by user aliasing allows you to assign the number.

Figure 59: Credential Aliasing window

4. Choose one aliasing option, and then click Next. The Change the 'secure' password window opens, as shown in Figure 60 below.

Figure 60: Change the 'secure' Password window

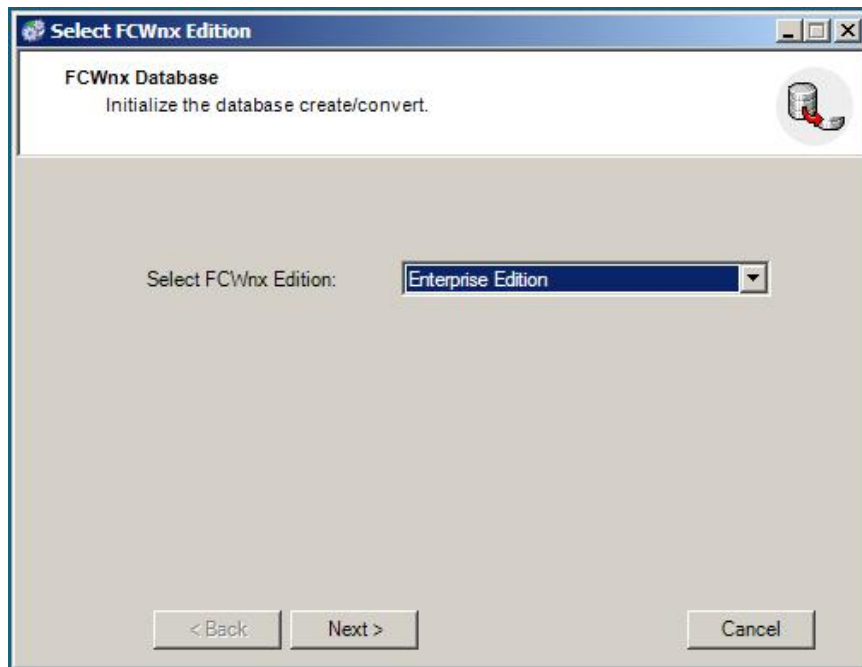
5. The Facility Commander Wnx installation creates a new Windows User ID called secure. By default, the password is SecurityMaster08 (case sensitive). If your Windows network has security policies that enforce rules for password creation, you may need to change the secure user password. If you are unsure, ask your system administrator.

Select one of the following:

- Use Default Password
 - Change Password (If you select this option, enter your new password and then enter a second time.)
6. Click Next to continue. The Ready to Install the Application window opens.
The default Destination Folder is indicated. You may want to install to another location. Click Browse to navigate to the program folder of your choice for placement of Facility Commander Wnx files.
 7. Click Next to continue. Facility Commander Wnx copies system files, updates the system configuration, and displays the Facility Commander Wnx icon on your desktop. This may take a few minutes.
 8. When the Facility Commander Wnx has been successfully installed window opens, click Finish. The FCWnx License Setup window opens.

To select a Facility Commander Wnx Edition:

1. From the drop-down list of Facility Commander Wnx editions, select Enterprise Edition, as displayed in Figure 61 on page 87.

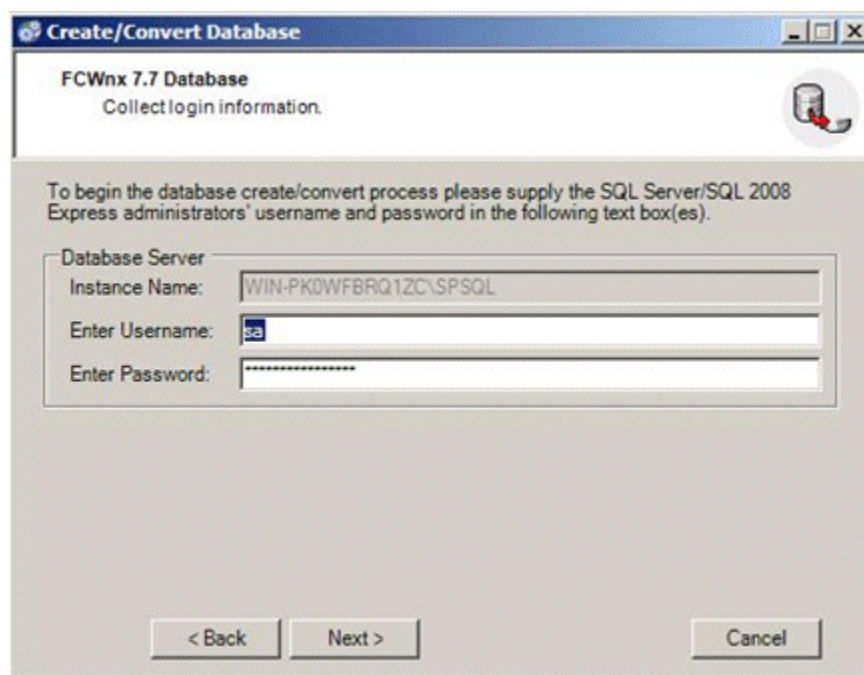
Figure 61: Select FCWnx Edition

2. Click Next.

To create a database:

1. The Create/Convert Database window opens, as shown in Figure 62 on page 88.

Note: We recommend that you *do not* select Cancel in this window. However, if you must exit at this time and plan to create your database at another time, you can do so by clicking Start, All Programs, Facility Commander Wnx, and then Create FCWnx Databases.

Figure 62: Create/Convert Database window

2. Enter the SQL Server password for the 'sa' user. (This password was created during installation of Microsoft SQL. Refer to "Installing Microsoft SQL Server" on page 16.)

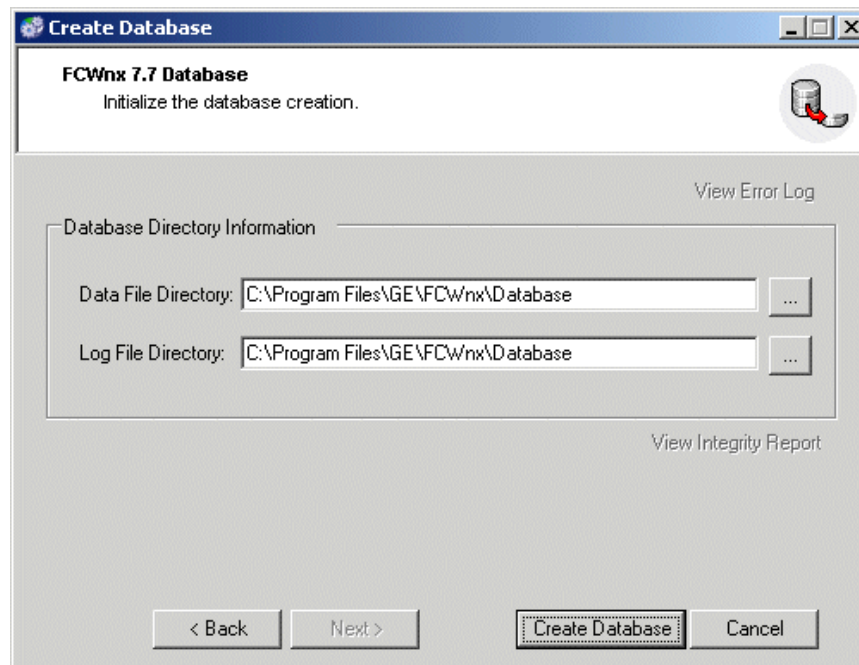
Note: If you purchased your Facility Commander Wnx system from UTC Fire & Security, a temporary password of SecurityMaster08 (case sensitive) was assigned for you.

3. Click Next to continue. The Database Directory Information window opens, as shown in Figure 63 on page 89.

The default directories are indicated. Each Facility Commander Wnx database consists of data files and transaction logs. You have an option to place those components in different physical locations. You may consider this if your IT Department has certain policies regarding database installation. Consult with your IT Department for assistance.

- **Data File Directory:** The Data File Directory field displays the default directory. Accept the default as displayed or click the Browse button and browse to any folder location where data files will be stored.
- **Log File Directory:** The Log File Directory field displays the default directory. Accept the default or click the Browse button and browse to the folder location where database log files will be stored.

Note: This refers to the database logs; this does NOT refer to the Facility Commander Wnx logs.

Figure 63: FCWnx Database window

4. Review the Database Directory Information. If acceptable, click Create Database. The database creation begins and a progress bar is displayed. This may take a few minutes.

WARNING: If a database already exists, a warning message will display stating that you are about to overwrite your existing database with an empty default database.

5. When the database creation is complete, a message displays informing you that the database was successfully created/converted. Click OK. The dialog box closes.

Note: A log file is created when the Create Database program is run. The log file, called 'SPCreateDB.txt' is found in the Logs folder. The Integrity utility runs automatically, following a database creation. No user interaction is required. Refer to your Facility Commander Wnx Online Help for addition information about the Integrity utility.

File server on second computer

Now, you must select and install *only* the file server component on a separate Windows 2003 or Windows 2008 Standard server computer:

Note: Prerequisite: Database server and FCWnx application installation already complete. If you do not install the file server at this time, you will not be able to license your system.

To install the filer server on the second computer:

1. Verify that the computer you are configuring meets minimum requirements.
2. Install the operating system. *Do not* install Microsoft SQL.
3. You *must* log on to the computer as the local administrator user. If not, log off and log back on as a user with these permissions. If you are logging onto a domain environment, log off and log on as administrator to the local computer. (If the computer is a domain controller, log on as an administrator to the domain.)
4. Insert the FCWnx installation disc into the CD/DVD drive. When prompted, click Run autorun.exe.

If the disc does not launch, you must manually start the software. Using Windows Explorer (Window key-E), navigate to the FCWnx Installation disc and double-click autorun.exe.

5. The Facility Commander Wnx Main Menu opens. Click Install FCWnx v7.7.
6. The Facility Commander Wnx introduction page opens. Click Install.

A series of windows may display as the listed components automatically install if not already there. These components may cause the system to restart when a new version is installed. If your computer restarts, log on as Administrator and installation continues.

- .NET Framework
- Windows Installer

Note: On rare occasions when installing Facility Commander from a DVD drive, the installation will stall for approximately 10 to 20 minutes from the time you click Install to the time when the Welcome to Facility Commander Wnx 7.7 Installation Wizard page opens. If this occurs, it is most likely caused by your anti virus software. If you have anti virus software running, you must configure it so that the DVD drive is not scanned. Refer to the documentation that came with your anti virus software for details.

7. The Facility Commander Wnx installation processes updates on your system. When the latest versions of each component are updated and identified, Facility Commander Wnx installation begins, and the Welcome window opens. Continue with “The Facility Commander Wnx software installation begins” on page 91.

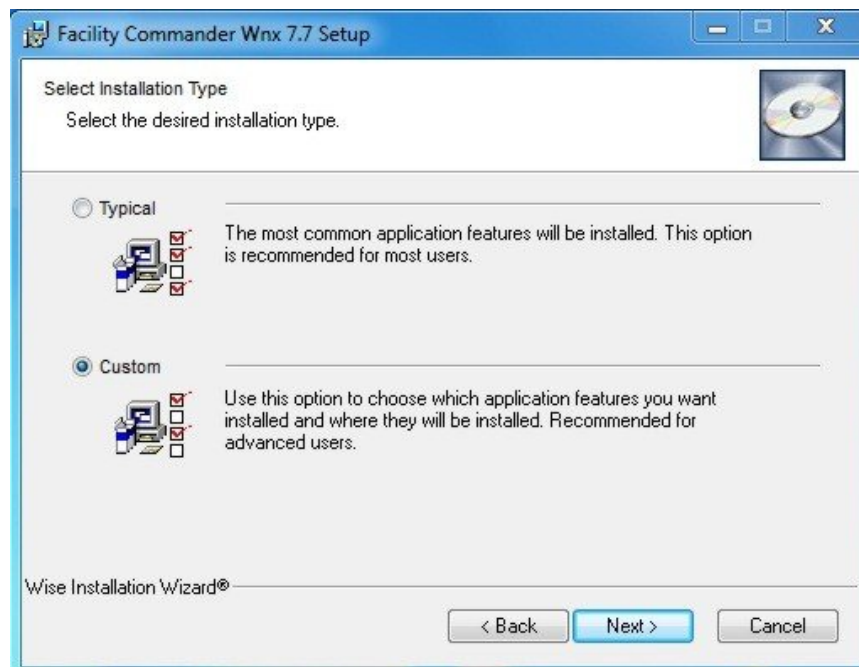
The Facility Commander Wnx software installation begins

Note: A Cancel button displays on every FCWnx installation window. If you click Cancel at any time during the installation, the FCWnx installation process stops, but all Windows components that have been installed must be manually removed.

To install the Facility Commander Wnx application:

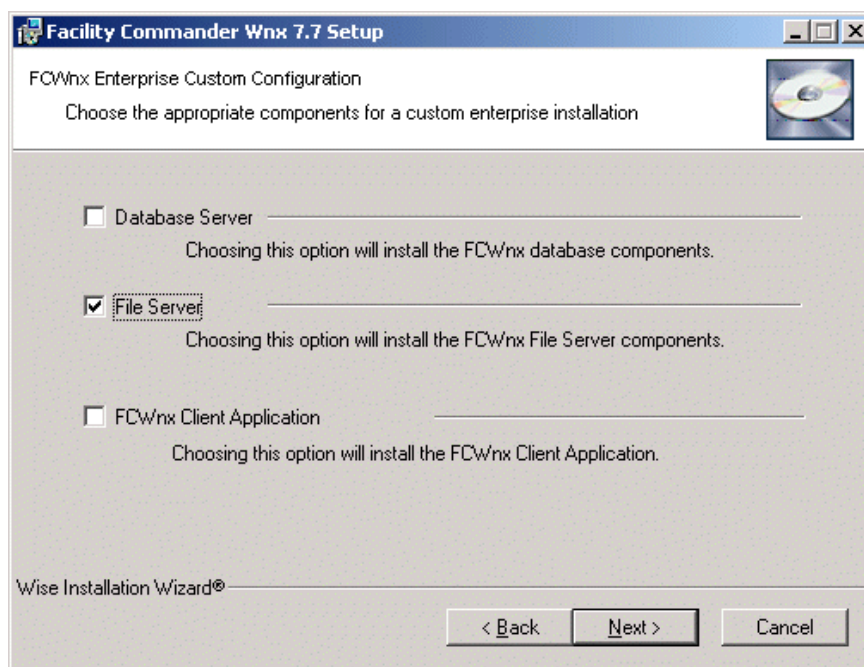
1. The Facility Commander Wnx Welcome window opens. Click Next.
2. When the License Agreement window opens, select I accept the license agreement, and then click Next. The Select Installation Type window opens as shown in Figure 64 below.

Figure 64: Select Installation Type - Custom



3. Select the type of installation as Custom. Click Next.
4. On the FCWnx Enterprise Custom Configuration window, check the check box for *only* File Server.

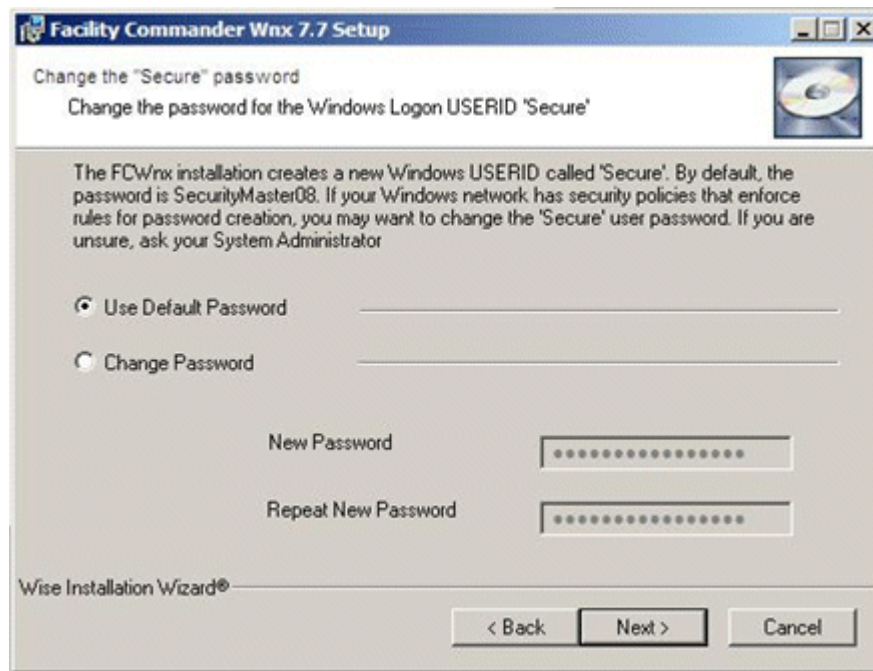
Figure 65: FCWnx Enterprise Custom Configuration - File Server



5. Click Next. The Change the 'secure' password window opens, as shown in Figure 66 on page 93.

The Facility Commander Wnx installation creates a new Windows User ID called secure. By default, the password is SecurityMaster (case sensitive). If your Windows network has security policies that enforce rules for password creation, you may need to change the secure user password. If you are unsure, ask your system administrator. Select one of the following:

- Use Default Password
- Change Password (If you select this option, enter your new password and then enter a second time.)

Figure 66: Change the 'secure' Password window

6. Click Next. The Ready to Install the Application window opens. The default Destination Folder is indicated. You may want to install to another location. Click Browse to navigate to the program folder of your choice for placement of Facility Commander Wnx files.
7. Click Next to continue. Facility Commander Wnx copies system files and updates the system configuration. This may take a few minutes.
8. When the Facility Commander Wnx has been successfully installed window opens, click Finish.
9. Remove the Facility Commander Wnx installation disc from the CD/DVD drive.
10. Now, install *only* the FCWnx client application on a third computer.

FCWnx client application on third computer

Windows XP Professional, Windows Vista, or Windows 7 operating system

Note: Prerequisite: Database server installation and file server installation already complete. Continue with instructions as listed in Chapter 6 “Installing Facility Commander Wnx Software on additional clients” on page 131.

Windows 2003 or Windows 2008 Server operating system

Note: Prerequisite: Database server installation and file server installation already complete.

To install the FCWnx client application on the second computer using Windows 2003 or 2008:

1. Verify that the computer you are configuring meets minimum requirements.
2. If not already done, install the Windows 2003 or Windows 2008 operating system, but *do not* install Microsoft SQL.
3. You *must* be logged in as the local administrator user. If not, log off and log back on as a user with these permissions. If you are logging onto a domain environment, log off and log on as administrator to the local computer. (If the computer is a domain controller, log on as an administrator to the domain.)
4. Insert the FCWnx installation disc into the CD/DVD drive. When prompted, click Run autorun.exe.

If the disc does not launch, you must manually start the software. Using Windows Explorer (Window key-E), navigate to the FCWnx Installation disc and double-click autorun.exe.

5. The Facility Commander Wnx Main Menu opens. Click Install FCWnx v7.7.
6. The Facility Commander Wnx introduction page opens. Click Install.

A series of windows may display as the listed components automatically install if not already there. These components may cause the system to restart when a new version is installed. If your computer restarts, log on as Administrator and installation continues.

- .NET Framework
- Windows Installer

Note: On rare occasions when installing Facility Commander from a DVD drive, the installation will stall for approximately 10 to 20 minutes from the time you click Install to the time when the Welcome to Facility Commander Wnx 7.7 Installation Wizard page opens. If this occurs, it is most likely caused by your anti virus software. If you have anti virus software running, you must configure it so that the DVD drive is not scanned. Refer to the documentation that came with your anti virus software for details.

7. The Facility Commander Wnx installation processes updates on your system. When the latest versions of each component are updated and identified, Facility Commander Wnx installation begins, and the Welcome window opens. Continue with “The Facility Commander Wnx software installation begins” on page 95.

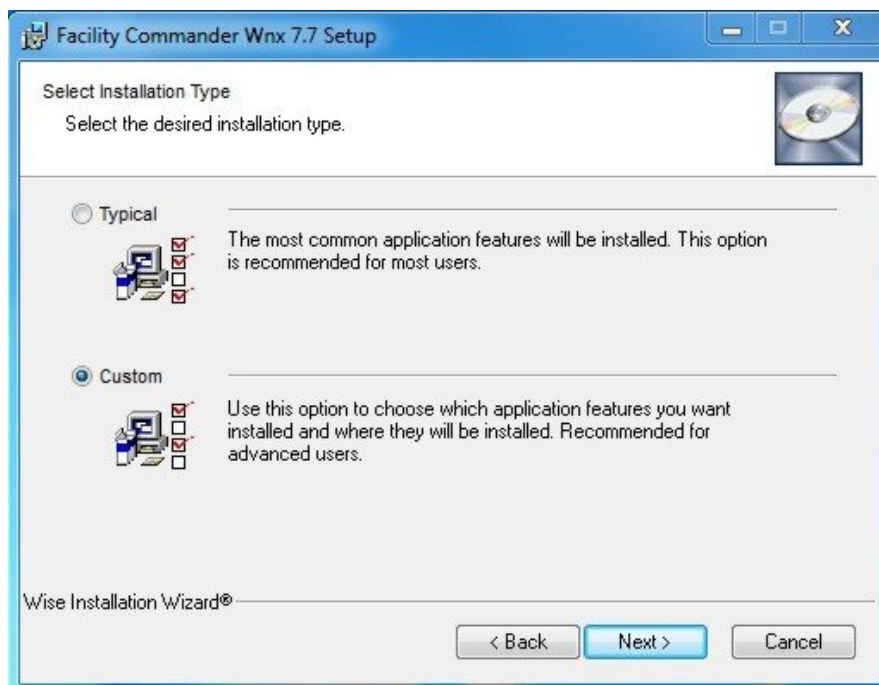
The Facility Commander Wnx software installation begins

Note: A Cancel button displays on every FCWnx installation window. If you click Cancel at any time during the installation, the FCWnx installation process stops, but all Windows components that have been installed must be manually removed.

To install the Facility Commander Wnx application:

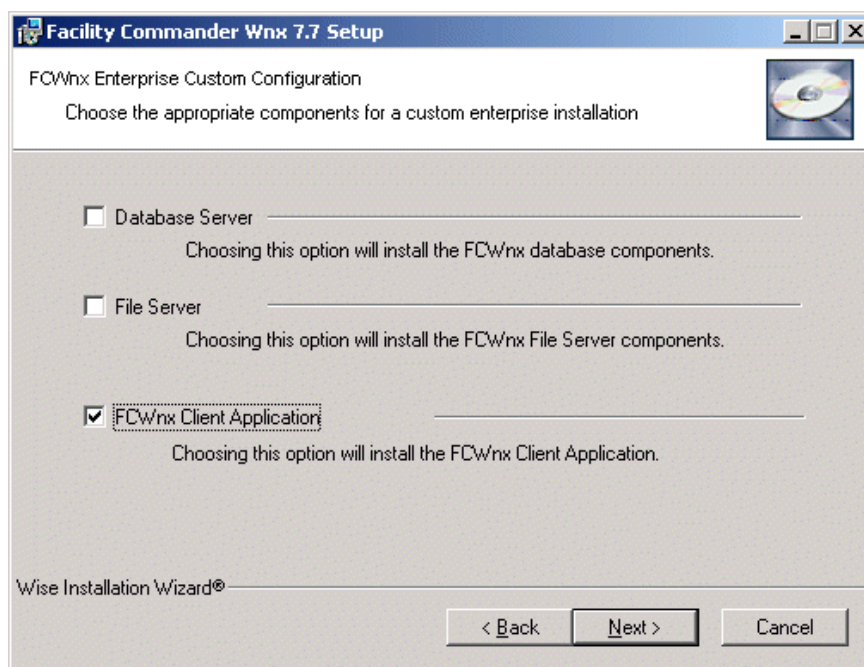
1. The Facility Commander Wnx Welcome window opens. Click Next.
2. When the License Agreement window opens, select I accept the license agreement, and then click Next.
3. When the Select Installation Type window opens, as shown in Figure 67 below, select the type of installation as Custom.

Figure 67: Select Installation Type - Custom



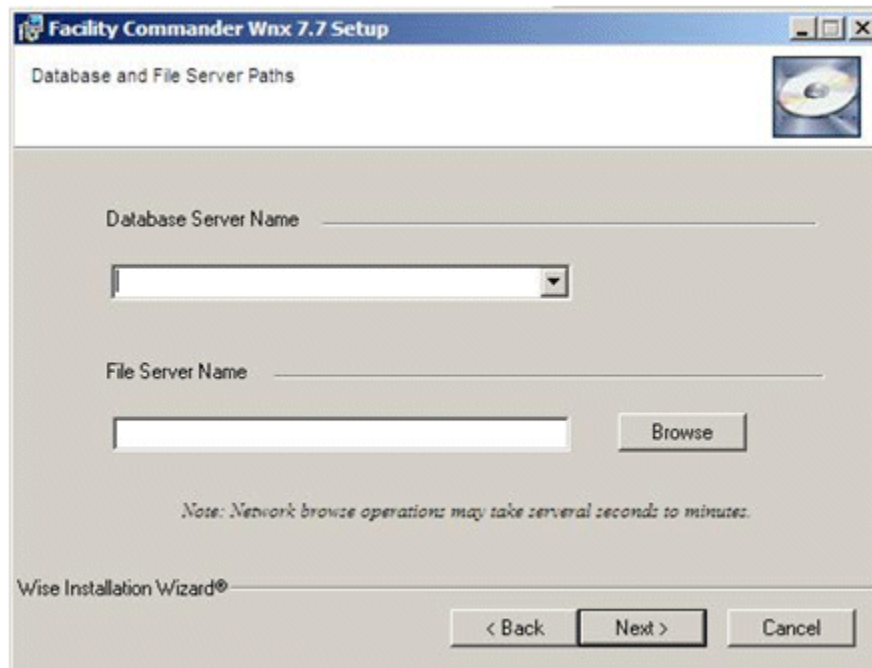
4. Click Next.
5. On the FCWnx Enterprise Custom Configuration window, check the check box for *only* FCWnx Client Application, and then click Next.

Figure 68: FCWnx Enterprise Custom Configuration - FCWnx Client Application



6. Click Next. The Database and File Server window opens as shown in Figure 69 on page 97.

If the name displayed in Database Server Name is not correct, select the appropriate name from the drop-down list. If the name displayed in File Server Name is not appropriate, navigate to the File server computer for this client and select to display in the File Server Name dialog box.

Figure 69: Database and File Server Paths

7. Click Next. The Change the 'secure' Password window opens. Select one of the following:
 - Use Default Password
 - Change Password (If you select this option, enter your new password and then enter a second time.)
8. Click Next. The Ready to Install the Application window opens. The default Destination Folder is indicated. You may want to install to another location. Click Browse to navigate to the program folder of your choice for placement of Facility Commander Wnx files.
9. Click Next to continue. Facility Commander Wnx copies system files, updates the system configuration, and displays the Facility Commander Wnx icon on your desktop. This may take a few minutes.
10. When the Facility Commander Wnx has been successfully installed window opens, click Finish. The FCWnx License Setup window opens.
11. Continue with "Licensing Facility Commander" on page 107.

Licensing your Facility Commander Wnx system

We recommend that you license your system at this time. The reminder to license is placed at this point to maintain the proper sequence in completing your installation.

Refer to Chapter 4 “License and configure security settings for your FCWnx system” on page 107. After obtaining your registered license key as instructed follow one of the sequences listed:

- “First time license” on page 109
- “Running in demo mode” on page 110
- “Second and any additional client licenses” on page 111
- “If you do not license during the Facility Commander Wnx installation sequence” on page 112

Note: When you have completed a successful licensing sequence, return to this point and continue.

After a successful licensing sequence or if you click Cancel to license at another time, continue with “Configuring security settings” below.

Configuring security settings

The Security Configuration utility launches immediately following the License Setup and assists you in configuring firewall and DCOM settings on your computer. Check with your IT department for company-specific network settings.

Refer to “SecurityCnfg Utility” on page 116 for more details on using this utility.

After successfully configuring the security settings:

1. You will receive a Facility Commander Wnx Installation Complete dialog box. Click Yes to restart your computer.
2. Log on as administrator and continue with “Setting services to automatic startup” on page 99.

Setting services to automatic startup

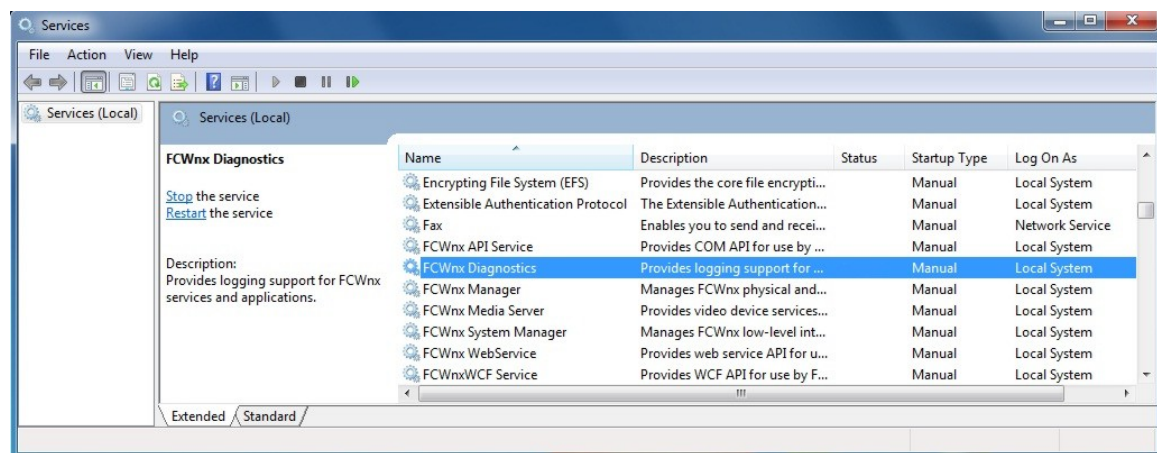
Note: At this point in the installation, the Facility Commander Wnx services are stopped.

Now, you need to change the startup method of the FCWnx Diagnostics, FCWnx Manager, FCWnx System Manager, and FCWnx WebService services to automatic. This means every time the computer starts, the Facility Commander Wnx services start. Refer to “Facility Commander Wnx services overview” on page 150, for additional information about Facility Commander Wnx Services.

To set the startup method of Facility Commander Wnx Services:

1. The Services window displays. Expand the list of services and scroll down.

Figure 70: FCWnx component services



2. Select FCWnx Diagnostics.
3. The status will be either Started or blank. If it is blank, then the service is not running.
4. Right-click, and then select Properties. In the Startup type field, select Automatic.
5. Click Apply, and then OK to close the window.
6. Repeat steps 3 through 6 for the following services:
 - FCWnx Manager
 - FCWnx Media Server
 - FCWnx System Manager
 - FCWnx WebService

- FCWnx WCF Service

Note: FCWnx API Service is used when an external system is sending or receiving transactions by way of an Application Program Interface (API) to FCWnx.

7. When all services are configured, close all windows and applications.
8. Restart the FCWnx server computer.

Server folder structure

During installation of the Facility Commander Wnx software, the folders shown in Figure 71 on page 101 and listed in Table 7 on page 101 are created. The folders displayed in your FCWnx folder (the default is Program Files\GE\FCWnx) vary with the type of installation:

If Typical Server Type is selected, all folders are present.

If Custom Server Type is installed and only the:

Database server feature is installed, the following folders are present:

- Database
- gmcNls
- Logs
- SecureScripts
- vmcNls

File server feature is installed, the following folders are present:

- Designs
- Externals
- Firmware
- vmcNls
- gmcNls
- Logs
- Video

FCWnx client application is installed, the following folders are present:

- Config
- English
- gmcNls
- GraphicsCache
- jre
- Vmcnls
- Logs
- Rpt
- UserManuals
- VideoSubsystem
- Vmc

Some of the folders are shared. (Refer to the example in Figure 71 below.) This allows other computers to gain access to the information stored in these folders, when logged in as an authorized user.

Figure 71: Typical server folder structure



To learn more about the folders in your Facility Commander Wnx directory, review these descriptions:

Table 7: Server folder descriptions

Folder	Description
Config	A folder that contains website configurations for the FCWnx Web Service. The FCWnx Web Service is used by VMC to communicate with FCWnx.
Database	A folder that contains the system database file along with the archive and history database files. SQL Server log files for each database are also found in this folder.
Designs	A shared folder that contains all credential designs used by the imaging stations and sample credential designs.
English	The files required to display the Facility Commander Wnx client software in English. As more languages are installed, more language-specific folders display.
Externals	A shared empty folder created to store reports created by third party report generators.
Firmware	A shared folder that contains the firmware or application code needed to flash the controllers.

Folder	Description
gmcNls	A folder that contains the language support files for the Graphics Monitoring and Control (GMC) application. After the base install of FCWnx, these folders are empty as no language kits have been installed yet. As the language kits are installed, the language support files are placed in this folder.
GraphicsCache	A folder that contains the working data files for the GMC application.
jre	A folder that contains the Java Runtime Environment used by the GMC and the Video Management Console (VMC).
Logs	A shared folder that contains the Facility Commander Wnx diagnostic log files.
Rpt	A folder that contains files used by the report engine to create Facility Commander Wnx reports.
SecureScripts	The scripts and programs used to create the database in SQL Server. It also contains subfolders required for converting and upgrading Diamond I, Diamond II, Sapphire Pro, and Secure Perfect systems to Facility Commander Wnx.
UserManuals	A folder that contains the FCWnx and GMC User Manuals in pdf format.
Video	A shared folder that contains captured video files.
VideoSubsystem	A folder that contains the dlls that enable communication between FCWnx and VMC.
Vmc	A folder that contains the Java code for the Video Monitoring and Control (VMC) application.
vmcNls	A folder that contains the language support files for the VMC application. After the base install of FCWnx, these folders are empty as no language kits have been installed yet. As the language kits are installed, the language support files are placed in this folder.

When you have completed your review of the folders in your Facility Commander Wnx directory, continue with “Facility Commander Wnx user accounts” below.

Facility Commander Wnx user accounts

During the Facility Commander Wnx server computer installation, a default Facility Commander Wnx local user account was set up for you. If you choose to add users and assign or change user passwords, review “Defining user accounts” on page 126.

Note: Default local group is SPAdmin. Default local user name is “secure” and the password is SecurityMaster08 (case sensitive).

For additional information on configuring users and assigning passwords, refer to the documentation that came with your Windows 2003, Windows 2008, Windows 7, Windows Vista, or Windows XP operating system.

Continue with “Adding additional clients to the database” below.

Adding additional clients to the database

Pinging additional client computers

In order to add an additional client computer in the database, you must verify that the computer can be reached by name.

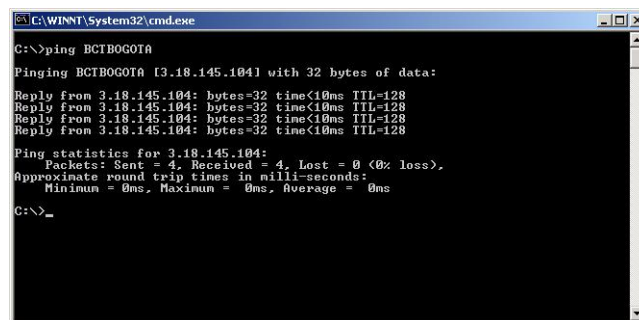
To communicate with the client computer from the Server Computer:

1. Click Start, and then click Run.
2. Type cmd then click OK. A command prompt window opens.
3. Type ping <name> where <name> is the name of the client computer. Press Enter.

If the ping was:

Successful: The client computer address was reached. Your window opens similar to Figure 72 below. Proceed with “Adding clients to the database” on page 105.

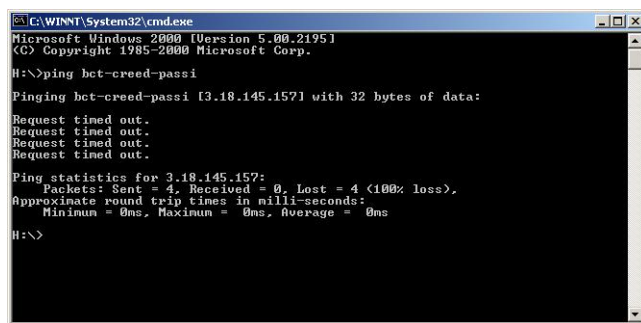
Figure 72: Successful ping to client computer



```

C:\WINNT\System32\cmd.exe
C:\>ping BCITBOGOTA
Pinging BCITBOGOTA [3.18.145.104] with 32 bytes of data:
Reply from 3.18.145.104: bytes=32 time<10ms TTL=128
Reply from 3.18.145.104: bytes=32 time<10ms TTL=128
Reply from 3.18.145.104: bytes=32 time<10ms TTL=128
Reply from 3.18.145.104: bytes=32 time<10ms TTL=128
Ping statistics for 3.18.145.104:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 0ms, Maximum = 0ms, Average = 0ms
C:\>_
  
```

Unsuccessful: The client computer could not be reached. Your window will display similar to Figure 73 on page 104. Verify your network settings as configured during the operating system setup (“Setting the network properties” on page 12 for a Windows 2003 or Windows 2008 Standard Server) or contact your network administrator for assistance.

Figure 73: Unsuccessful ping to server computer

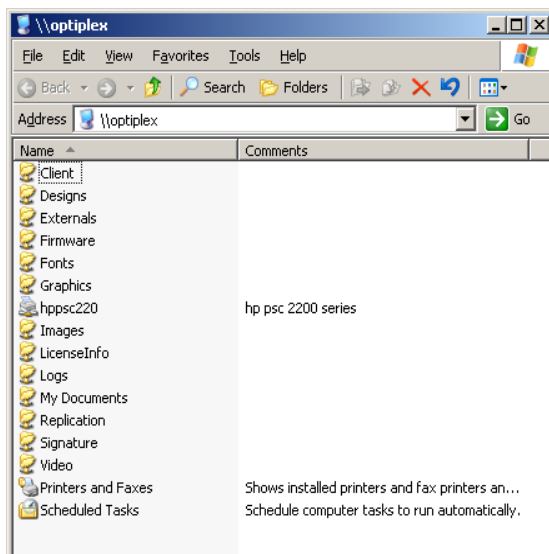
Note: You cannot proceed until the networking issues are resolved. Contact your network administrator.

Checking computer accessibility over the network

Another method for checking access to the computer is by using the following command:

1. Click Start, and then click Run.
2. At the Run window, type \\<computer name> where <computer name> is the name of the client computer.

If the computer is found, you receive a window listing the shared folders on that computer similar to the following:



If the computer is not found, you receive a message similar to the following:



Continue with “Adding clients to the database” below.

Adding clients to the database

You need to add all client computers to your Facility Commander Wnx database that will be in your Facility Commander Wnx system. To do this, log on to Windows using your Windows Logon USERID ‘secure’ and start the Facility Commander Wnx application.

To add clients to the Facility Commander Wnx database:

1. When you have installed and licensed the Facility Commander Wnx application for the first time (this is the First Time License computer), start the Facility Commander Wnx application by double-clicking the Facility Commander Wnx desktop icon.
 - Typical Installation: The server computer is the First Time License computer and you can add clients at the server computer.
 - Custom Installation: The components required to license may be stored on two separate computers:
 - The file server stores the LicenseInfo file.
 - The First Time License computer stores the Component Services files.

Note: You must be able to communicate with the computers that store both source files.
2. From the File menu, select Login.
3. Log on as secure with a password of SecurityMaster08 (case sensitive).
4. If client computers have Windows XP Professional, Windows Vista, or Windows 7 installed and if they are on the network, you can access the Client form in the Facility Commander Wnx application, and proceed with adding clients to the database.

To access the Client Form:

1. From the Application Group pane, select Administration then Client. A new client form is displayed.
2. Click Add from the Facility Commander Wnx main menu.

3. Enter data describing your new client. Refer to Online Help for details of each individual field.

Note: If a client computer is currently offline or connected to the network by a gateway or hub, you may not see that computer. You may need to correct network issues with the client computer before proceeding. You may also see computers that cannot be clients since they do not use TCP/IP protocols.

4. Click Save.
5. Repeat step 2 through step 4 for all clients.
6. You can add as many clients as you want. However, only the licensed maximum number can connect to the Server at the same time. Refer to “About Facility Commander Wnx license summary” on page 114.

What's next?

If you have not already removed the installation disc from your CD/DVD drive, do so now. You have completed the server computer setup. Proceed with one or more of the following:

- If you have not licensed your system, do so now. Chapter 4 “License and configure security settings for your FCWnx system” on page 107.
- Proceed to set up the additional client computers on your Facility Commander Wnx system. Refer to Chapter 6 “Installing Facility Commander Wnx Software on additional clients” on page 131.
- Proceed to configure your Facility Commander Wnx system. Refer to Chapter 7 “Logging on and configuring Facility Commander Wnx” on page 149.

Chapter 4

License and configure security settings for your FCWnx system

Summary

This chapter details procedures to follow when licensing your new Facility Commander Wnx system. Follow instructions in the sequence presented.

Keep in mind that you may have to return to a previous section of this manual to continue the installation sequence following the licensing process.

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Licensing Facility Commander

The Licensing program is used to enter the license key for Facility Commander Wnx. The license key controls the following:

Note: If you purchased this system from UTC Fire & Security, the license key is entered for you.

- Number of client licenses

You can install Facility Commander Wnx on any number of computers. The license controls the number of concurrent clients connected to the server computer.

- Number of Standard Photo Imaging licenses
- Number of Enhanced Photo Imaging licenses

You can install Imaging on any number of computers. The license controls the number of Imaging stations active at the same time.

- Number of readers
- Number of cameras
- Number of API connections
- Thin client enabling
- Expiration date of the license
- Client Redundancy enabling
- Visitor enabling
- Report Commander License
- Guard tours enabling (micro controllers only)
- Graphics enabling
- Types of controllers
- Deployment parameters
- DVR types supported (this list is enabled if applicable to your system)
- OH Receiver interface

A summary of this information can also be viewed by selecting About... from the application help menu.

Generating a registration key

To obtain a license key, contact UTC Fire & Security Customer Support as follows. Have the barcode from the software box and machine seed key available.

Telephone: 855 536 3573, option 5

Email: access.licenses@fs.utc.com

Entering the license key

When you have a registered license key, it is time to enter the key in FCWnx License Setup, at the Facility Commander Wnx application server computer.

1. If the license program is not already open, select Start, Programs, Facility Commander Wnx, then FCWnx License. A Welcome dialog box displays.
2. Click OK to close the dialog box and display the FCWnx License Setup window.
3. Continue with the instructions as presented in one of the following scenarios:
 - “First time license” below
 - “Running in demo mode” on page 110
 - “Second and any additional client licenses” on page 111
 - “If you do not license during the Facility Commander Wnx installation sequence” on page 112

First time license

This scenario assumes that this is the first client, and this client is licensing during the installation sequence.

To license the first client:

1. The First Time License check box is checked for you. Do not change. If it is not checked, please check it now.
2. SQL Password for FCWnx: Enter a 12 character password that the application will use to access the FCWnx database. By default, it is set to the first 12 characters of the Machine Seed Key.
3. Select the Warranty Reminder in the Days before Expiration group box, and enter or select the number of days before expiration of your warranty that you want a reminder to begin displaying in your application. This field accepts a number between 0 and 120.

License Controller:

4. The Machine Seed Key is displayed for information only and is a read-only field.
5. In the License Key sections, enter the 35-character license key string obtained through the UTC Fire & Security Web site. You can type the entry into the control dialog boxes or select, copy, and paste by clicking any License Key edit control boxes to paste the entire key.

File server:

6. The Path for license information file located on the File Server: is a read-only dialog box and displays for information only.
7. The Browse button is enabled and allows selection of file server license information path to give the user an opportunity to log in to the remote computer, if the currently logged in user does not have permissions for the folder. When you navigate to and find the server computer, you must select the LicenseInfo folder to display the server name/folder name combination in this dialog box.
8. Click Register. An SQL Server Login window displays.
9. Enter the password for the SQL Server 'sa' user, and then click OK.
10. A message displays informing you that the license setup was successful and that the services will be stopped.
11. Click OK. The license program exits. The system registers the license key for this client and the software is licensed for use.

Note: The computer in your system that accesses and completes the registration for the first time is the license controller computer. The license key is stored on the File server computer; therefore, the first-licensed computer AND File server computer must be online when services are started, and the newly licensed client is brought online for the first time.

12. If you do not enter a license key, then Facility Commander Wnx will run in Demo Mode with only limited functionality. Refer to "Running in demo mode" below.

Note: A summary of your license displays in the About... window of Facility Commander Wnx. Refer to "About Facility Commander Wnx license summary" on page 114 , for additional details.

13. Following the licensing sequence, you *must* return to your installation sequence. Unless otherwise instructed, you are ready to set services. Refer to "Setting Services to Automatic Startup," in the section of this manual pertaining to the operating system you are installing.

Running in demo mode

Clicking Cancel during the first licensing session

When the License Setup window displays during the installation sequence, the option to Cancel can be selected. Installation of this application completes and operation of your system continues in Demo Mode until you properly license your system. In Demo Mode, the system periodically shuts down and you are required

to restart this application to continue operations. This sequence continues indefinitely if you have not properly licensed your system.

Operation during Demo Mode is limited to the following:

- 2 client computers
- 1 Imaging session
- 4 readers
- 4 cameras
- 1 API connection
- Client Redundancy
- Guard tours
- GMC
- Controller support
- VMC

Second and any additional client licenses

Note: If the client is part of a domain, the user logged on must be a domain user assigned to the SPAdmin group of this application on the server, and not logged on locally as Administrator. If you are logged on locally as Administrator, you will not be able to license successfully because the LicenseInfo folder will not be found.

You *must* license all additional clients in order to operate Facility Commander Wnx.

To license the second and any additional clients:

1. If the license program is not already open, select Start, Programs, Facility Commander Wnx, then FCWnx License. The License Setup page opens.
2. Click OK on the License Setup dialog box, if you have not already done so.
3. The First Time License check box is clear. Ignore and do not select.
4. SQL Password for FCWnx: This field is disabled and was completed when First Time License was completed.
5. Select the Warranty Reminder in the Days before Expiration group box, and enter or select the number of days before expiration of your warranty that you want a reminder to begin displaying in your application. This field accepts a number between 0 and 120.

License Controller:

6. The Machine Seed Key is displayed for information only and is a read-only field.
7. Ignore the License Key section. (This section is disabled and was completed when First Time License was completed.)

File server:

Note: If the file server Firewall is ON, File and Printer Sharing must be selected (enabled) on the Exceptions tab.

8. The Path for license information file located on the File Server: may have a default path listed. Verify the path or click Browse to navigate to the application folder for this application, then License Info file of the server computer. Select and click the file name. It now displays, in the Path for license information file located on the File Server field.
9. Click Register. The license program exits. The system registers the license key for this client and the software for this application is licensed for use. A message displays informing you that the license setup was successful and services for this application will be stopped.
10. A summary of your license displays in the About... window of Facility Commander Wnx. Refer to “About Facility Commander Wnx license summary” on page 114, for additional details.
11. Following the licensing sequence, return to your installation sequence.

Note: License controllers and clients must relicense if the network card has been changed or the computer replaced. If the license controller computer is relicensed, ALL clients must be relicensed.

If you do not license during the Facility Commander Wnx installation sequence

If you do not license during the installation sequence, installation completes and operation of your system continues in Demo Mode until you properly license your system. Refer to “Running in demo mode” on page 110 for details.

This scenario assumes that this is the first client, and this client is licensing some time after the Facility Commander Wnx installation sequence.

To license after installation of Facility Commander Wnx:

1. Click Start, Programs, Facility Commander Wnx, FCWnx License.
The License Setup page opens.
2. Check the check box First Time License.

3. SQL Password for FCWnx: Enter a 12 character password that the application will use to access the FCWnx database. By default, it is set to the first 12 characters of the Machine Seed Key.
4. Select the Warranty Reminder in the Days before Expiration group box, and enter or select the number of days before expiration of your warranty that you want a reminder to begin displaying in your application. This field accepts a number between 0 and 120.

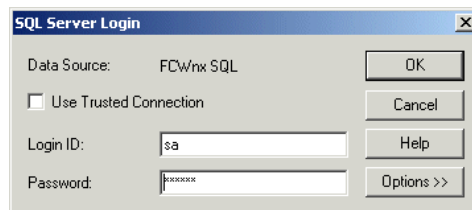
License controller:

5. Accept and do not change the License Controller, Machine Seed Key, as displayed.
6. In the License Key sections, enter the 35-character license key string obtained through the UTC Fire & Security Web site. You can type the entry into the control dialog boxes or copy, cut, and then click any License Key control dialog box to paste the entire key.

File Server:

7. The Path for license information file located on the File Server: is a read-only dialog box and displays for information only.
8. The Browse button is enabled and allows selection of file server license information path to give the user an opportunity to log in to the remote computer if the currently logged in user does not have permissions for the folder.
9. Click Register.
10. The SQL Server Login dialog box may display, as shown in Figure 74 below. Clear the Use Trusted Connection check box, if checked, and enter Login ID as 'sa' and enter sa's Password. If you purchased your system from UTC Fire & Security, a temporary password of SecurityMaster08 (case sensitive) was assigned. We recommend that you enter a password of your choice. Click OK.

Figure 74: SQL Server Login dialog box with data

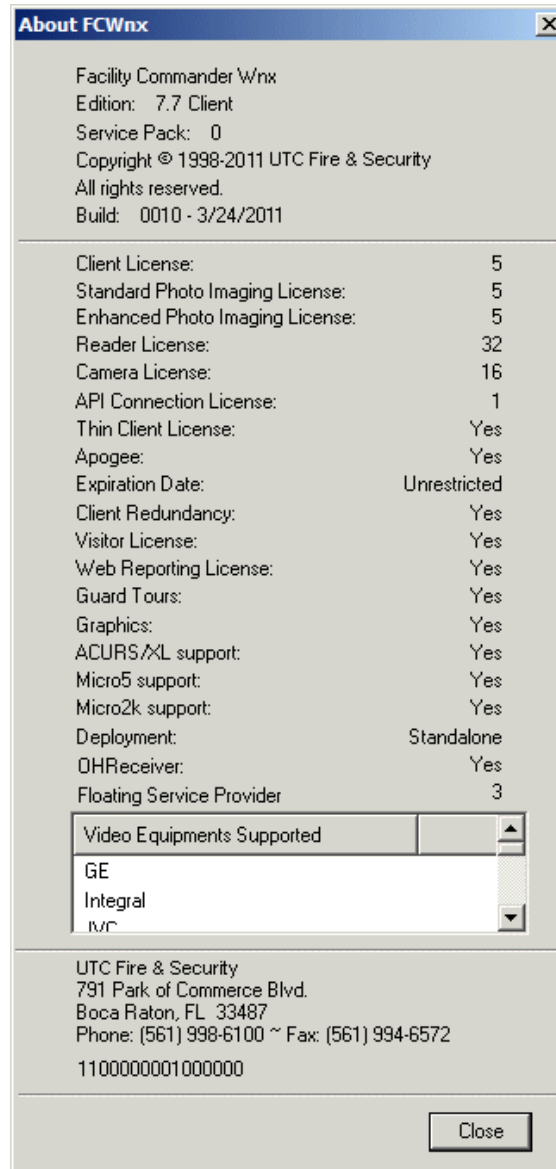


11. The license program exits. The system registers the license key for this client and the software is licensed for use. A message displays informing you that the license setup was successful and services will be stopped.
12. Following the licensing sequence, a summary of your license displays in the About... window of each client computer. Refer to “About Facility Commander Wnx license summary” below, for additional details.
13. You are ready to log on. Refer to Chapter 7 “Logging on and configuring Facility Commander Wnx” on page 149 for login instructions.

Note: The computer in your Facility Commander Wnx system that accesses and completes the registration for the first time is the license controller computer. The license key is stored on the license controller computer; therefore, the license controller computer must be online, with Facility Commander Wnx services running in order to license additional client computers.
14. We recommend that you store your license agreement number in a safe place, so that if the license key is ever destroyed or corrupted, you can reinstall without having to contact UTC Fire & Security.

About Facility Commander Wnx license summary

Following a successful login, the Edition of Facility Commander Wnx installed on your computer, as well as the Service Pack (if any), and parameters of your system display in the Facility Commander Wnx application, Help menu, About FCWnx window, similar to the following:

Figure 75: Help Menu - About window

SecurityCnfg Utility

This application assists you in configuring firewall and DCOM settings on your computer. We recommend that you configure your FCWnx system with the Windows firewall ON. In order for your system to perform successfully, the following firewall and DCOM ports must be configured for server and client communication across your network.

Table 8: Supported authentications

	Anonymous	Local User Account	Domain Account
Domain	Yes	N/A	Yes
Workgroup	Yes	Not supported	N/A

FCWnx default port assignments

FCWnx uses the following default port assignments when installed. FCWnx also communicates through DCOM requests via the operating system. The operating system dynamically handles the port assignments for DCOM and the default range used for communication are 1024-65535.

You can configure DCOM to use TCP rather than RPC at the operating system level, effectively optimizing the number of ports required. Contact Technical Support for configuration assistance.

Table 9: Default port assignments

Service	Port assigned
Media server:	8085 (HTTP - inbound from video client) 8086 (HTTP - inbound communication from host) 8087 (HTTP - outbound to host) 8088 (TCP - inbound stream requests from video client) 8089 (HTTP - outbound to video client)
Video devices:	
SymSafe/SymDec	1024 (TCP – command and control) Random (UDP – video streams)
DVMRe and StoreSafe	1024 (TCP)
VisioWave	4001 (TCP – command and control) 4444 (TCP – event control) 11001 (TCP – storage control) 5001 – 5256 (UDP – video streams) 8001 – 8256 (TCP – PTZ control)

Service	Port assigned
DVSRxU and TruVision TVR 10	8000 - (TCP – command and control)
Integral	18772 (TCP – (command and control)
Intellex	5000 - 5002 (TCP – (command and control)
Nice	2024 (TCP – (command and control)
Panasonic	80 (HTTP – (command and control)
Pelco	9002 (TCP – (command and control)

For machines running Windows XP or Windows 2003, you must be logged in with local administrator rights to run the SecurityCnfg Utility. If not, log off and log back on as a user with these permissions.

For machines running Windows Vista, Windows 7, or Windows 2008, you must be logged in as the local administrator to run the SecurityCnfg Utility. If not, log off and log back on as the local administrator.

This application is launched one of three ways:

- Auto launches immediately following the licensing sequence.
- Select Configure Ports on the main File menu of FCWnx.
- Click Start, then select Programs, Facility Commander Wnx, then SecurityCnfg.exe.

Once the program starts:

1. The Communications Ports for Clients window displays. This displays the low and high range for the ports used for TCP and UDP filtering.
2. Accept the given port values or change to suit your installation. If you need to change the ports, contact your IT department to make sure there are no port conflicts.
3. Click Next to continue. The settings are automatically saved to your computer. The DCOM User and Password window displays.
4. The Default check box is checked by default, which means this application uses secure authentication. That is, DCOM authentication is verified using the secure user account created during FCWnx installation. DCOM communication is configured for you and ports are opened during installation.
 - If you use secure authentication, skip to step 10.
 - If you do not wish to use secure authentication, clear the Default check box and complete the remaining fields on the window.

If you cleared the Default check box, these fields are enabled.

5. In the Username field, enter a domain or local user name for this user.
6. In the Password field, enter a domain or local password for the user listed in the Username field.
7. In the Password (Confirm) field, enter the domain or local password a second time identical to what was entered in the Password field.
8. In the Domain field, enter the name of the FCWnx domain.
9. Items to note:
 - The username and password are used to authenticate remote DCOM objects.
 - To keep interruptions to the FCWnx application to a minimum, your IT Department may choose to set passwords as never expiring.
 - If any computer in your FCWnx system uses DCOM authentication, then all other client computers must use DCOM authentication.
10. Click Next to continue. The settings are automatically saved to your computer and DCOM is configured for FCWnx.
11. The Firewall Configuration window displays.

The following port numbers display by default:

- Controller Communications Port: 6699
- Client Workstation/Server Communications Port (RPC): 135

The following port numbers are read from the dvmrtable of your FCWnx system.

8088: Server Workstation Video Streaming Port. Used by the video server to send streaming video.

8085: Start Video Communications Port Range (3). Used by video clients to communicate with video servers.

8089: Start Digital Video Viewer Port Range (20). Additional ports used by video clients to communicate with video servers.

These numbers signify a range of ports. Your application log identifies the specific ports that are opened. Additionally, your firewall application identifies which ports are on or off. The following port numbers display by default:

12. Accept the default port settings or enter another setting. If you change any setting, you are opening firewall ports and changing how video communicates:
 - If any port (range) setting is changed, the previously opened firewall port is closed the next time that SecurityCnfg is run. For example, the first time

SecurityCnfg is run, you accept the default settings. You run SecurityCnfg again and change the port numbers, the old port numbers will be closed and the new ones will be opened.

- Ports are usually changed because they are in use by other applications. Closing the ports in the firewall affects these applications.
- It is required that each computer in your FCWnx system be changed to the identical setting.
- Then, restart services.

13. Click Finish to save and close this application. The settings are automatically saved to your computer.

What's next?

Unless otherwise stated in your installation sequence, continue the installation for your system by selecting one of the following sequences:

- Facility Commander Wnx Server Computers: "" on page 99
— or —
- Facility Commander Wnx Client Computers: "Configuring security settings" on page 141

Chapter 5

Windows 7, Vista, and XP Professional system setup

Summary

This chapter provides specific information about setting up a Windows 7, Windows Vista, or Windows XP Professional computer as an FCWnx Professional server computer or client computer. We recommend that you read these sections carefully before you begin the installation. Perform the steps in the order given. Each client computer will run the FCWnx application and Imaging package.

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Preinstallation checklist

To prepare your Windows XP Professional or Windows Vista computer, refer to this checklist of reminders:

Note: If you purchased this system from UTC Fire & Security, these tasks were completed for you.

- Meet the minimum recommended hardware and software requirements.
- Install the network card.
- Configure the computer for the network.
- Install Windows 7, Windows Vista, or Windows XP Professional with the appropriate Service Packs.
- Set the monitor resolution to a minimum of 1024 by 768 pixels.
- Set the Network Properties.

Network card

Note: If you purchased this system from UTC Fire & Security, the network card is installed for you.

If it is not already installed, install the network card now. Follow the instructions included with the board. Verify that you are using the same network card speed as the existing network. Refer to the Microsoft Installation Guide for details of a network card configuration or obtain information at www.microsoft.com/technet.

For Windows 7 operating systems, if you are using multiple network interface cards (NICs) for FCWnx related use, make sure that you choose the same network profile for each NIC. When attaching your NIC to a new (not previously configured) network, a popup window opens asking whether this new network is Home, Work or Public. Make sure you choose the same for both NICs so that when FCWnx is installed and SecurityCnfg is run, the profile will have the correct FCWnx ports open.

Configure the computer for the network

Determining computer type

Before you continue, consult with the network administrator before adding any computers to an existing network.

The system computer can be:

- Part of a new or existing workgroup.
- Part of an existing domain. (See “Adding the computer to an existing domain” below.)

Note: Setup will be different depending on which option you choose. Decide the configuration type before you continue with the installation.

Adding the computer to an existing domain

If the Enterprise client computer will be part of an existing domain, you will need to add the computer to the network. Since network configuration varies from company to company, see your network administrator for assistance.

Note: If your Facility Commander Wnx server computer and client computers participate in a workgroup, add the workgroup name during the installation. We suggest using FCWNX. Write down the server name and workgroup name as these are required during the client installation.

It is important that the Facility Commander Wnx server and client system use the same network properties. Refer to “Setting the network properties” on page 125 for more information or consult with your network administrator.

Installing the operating system

The Facility Commander Wnx client computer *must* be running Windows 7, Vista or XP Professional with any applicable Service Packs. If the operating system is not already installed on your computer, install it now.

WARNING: The computer must not be configured for Sleep Mode or Hibernate Mode. All Facility Commander Wnx services, such as monitoring and transferring events or alarms will not function if the computer is in Sleep Mode or Hibernate Mode. Make sure that your computer setting for Sleep Mode and Hibernate Mode is set to NEVER. It is also a good practice to set your "Turn off display" setting to Never. Refer to the documentation that came with your version of Windows for details on these settings or check with your IT department.

Note: For the Credential Designer features to function properly, the Windows operating system must be installed on drive C:\.

Insert the Windows Installation disc in your CD/DVD drive and follow the instructions provided by the Microsoft documentation.

Note: If you purchased this system from UTC Fire & Security, the operating system is installed for you.

This section represents an overview of the installation procedure and does not provide step-by-step instructions to install the operating system.

During the installation of the operating system, you will be asked to select a file system type. For added security, we recommend that you select NTFS.

For additional information, consult your Microsoft documentation.

Assigning user passwords

We recommend that you assign a password to all user accounts. This will avoid security permission issues when attempting to access remote client computers.

Refer to your Windows documentation for additional information on setting up a user and assigning passwords.

Setting up your monitor

The minimum recommended monitor resolution required for Facility Commander Wnx is 1024 by 768. Small Fonts *must* be selected on the General tab of the Advanced properties. If using Imaging, the minimum color resolution is High Color (16-bit).

To access the display settings:

1. Right-click your mouse on the desktop.
2. Select Properties from the menu.

3. Click the Settings tab in the Display Properties window.
4. Change the Screen resolution to at least 1024 by 768 pixels.
5. Change the Color quality to at least 16 bit if using imaging.
6. Click Apply.
7. Click OK.

Setting the network properties

It is important that the same network properties are used for both the Facility Commander Wnx server and client systems.

Windows XP Professional

To check the network settings:

1. Right-click My Network Places.
 2. Select Properties from the shortcut menu.
 3. Right-click the Local Area Connection icon and select Properties. The Local Area Connection Properties window opens.
 4. Select Internet Protocol TCP/IP.
 5. Click Properties.
 6. Select one:
 - Obtain an IP address automatically
 - Use the following IP address:
- Note:** Facility Commander Wnx computers do not require static IP addresses. However, if you selected Use the following IP address option, you must obtain a valid IP address from the network administrator, or use a local IP address that no other computer is using in your network. Consult your network administrator for detailed instructions.
7. Click OK.
 8. Click OK to exit Local Area Connection Properties.
 9. After Windows is installed, restart the computer and make sure it is connected to the network. Verify that you do not have any hardware errors under Device Manager.

Windows Vista and Windows 7

To check the network settings:

1. Click Start, and then click Control Panel.
Category view: Click Network and Internet, and then click Network Sharing Center.
Classic view: Double-click Network Sharing Center.
2. Click Manage network connections.
3. Right-click the Local Area Connection, and then select Properties. The Local Area Connection Properties window opens.
4. Select Internet Protocol Version 4 (TCP/IPv4) and Version 6 (TCP/IPv6).

Note: If Version 6 is enabled on the server, it must be enabled on the client.

5. Click Properties.
6. Select one:
 - Obtain an IP address automatically
 - Use the following IP address:

Note: Facility Commander Wnx computers do not require static IP addresses. However, if you selected Use the following IP address option, you must obtain a valid IP address from the network administrator, or use a local IP address that no other computer is using in your network. Consult your network administrator for detailed instructions.

7. Click OK.
8. Click OK to exit Local Area Connection Properties.
9. After Windows is installed, restart the computer and make sure it is connected to the network. Verify that you do not have any hardware errors under Device Manager.

Defining user accounts

Defining user accounts

Windows requires that a user account be set up for each user on that computer and for each user accessing the server remotely. This section addresses adding user accounts and assigning user passwords.

The User Accounts selection in Control Panel allows you to add users to your computer and to add users to a group. Permissions and user rights are usually granted to groups. By adding a user to a group, you give the user all the permissions and user rights assigned to that group.

During installation of the FCWnx application, the user group SPAdmin is created. Users must be a member of the SPAdmin group to perform most of the tasks necessary to operate the FCWnx system.

The user "secure" is automatically created during installation, and is part of the "Users" and "SPAdmin" group by default.

Note: If you do choose to add users, you must assign them to the group 'SPAdmin' after Facility Commander Wnx is installed.

Items specific to Windows XP Professional

Disable simple file sharing

Simple File Sharing is a feature in Windows XP that removes file sharing security options available in other version of Windows. This setting must be disabled for FCWnx to operate successfully between servers and clients. Once the user sets the permission, the user and clients have access to shared files and the ability to assign passwords to shares.

To disable simple file sharing:

1. Double-click My Computer on the Windows XP desktop.
2. From the Tools menu, select Folder Options to open a Folder Options window.
3. Click the View tab and locate the Use simple file sharing (Recommended) check box in the list of Advanced Settings.
4. To disable Simple File Sharing, ensure this check box is not checked. Check the check box to disable the option. (The Simple File Sharing check box should be at or near the bottom of the Advanced Settings list.)
5. Click OK to close the Folder Options window. The settings for Simple File Sharing are now updated; no computer restart is required.

Enabling Simple File Sharing prevents the ability to assign user-level passwords to shares. When Simple File Sharing is enabled on a computer, remote users are not prompted for a password when accessing that computer's shares.

If the Windows XP Professional computer is part of a Windows domain rather than a Windows workgroup, this process for enabling or disabling Simple File Sharing has no effect. Simple File Sharing always remains disabled for computers joined to domains.

Firewall exceptions list

If the Firewall is selected ON, File and Printer Sharing on the Firewall Exceptions list must be enabled.

To enable File and Printer Sharing:

1. Click Start and then click Control Panel.
2. On the control panel, double-click Security Center, and then click Windows Firewall.
3. On the Exceptions tab, make sure that File and Printer Sharing is selected (check box selected), and then click OK.

Items specific to Windows Vista

Windows communication foundation HTTP activation

If the Video Management Console (VMC) will be running on this computer, Windows Communication Foundation HTTP Activation must be enabled.

To enable Windows Communication Foundation HTTP Activation:

1. Click Start, Control Panel, and then Programs and Features.
2. Select Turn Windows features on or off from the Tasks panel on the left.
3. Search for Microsoft.NET Framework 3.5, and then enable (check box) Windows Communication Foundation HTTP Activation.

Firewall exceptions list

If the Firewall is selected ON, the following must be enabled in the Firewall Exceptions list:

- File and Printer Sharing
- Network discovery
- Workgroup Only: Remote Administration

To enable Firewall Exceptions selections:

1. Click Start and then click Control Panel.
2. On the control panel, double-click Security Center, and then click Windows Firewall.
3. On the Exceptions tab, make sure that the following selections are selected (check box selected), and then click OK.
 - File and Printer Sharing
 - Network discovery
 - Workgroup Only: Remote Administration

Items specific to Windows 7

Windows communication foundation HTTP activation

If the Video Management Console (VMC) will be running on this computer, Windows Communication Foundation HTTP Activation must be enabled.

To enable Windows Communication Foundation HTTP Activation:

1. Click Start, Control Panel, and then Programs.
2. Under Programs and Features, click Turn Windows features on or off.
3. Search for Microsoft .NET Framework 3.5.1, and then expand the folder. Make sure the Windows Communication Foundation HTTP Activation check box is checked, and then click OK.

Firewall exceptions list

If the Firewall is selected ON, the following must be enabled in the Firewall Exceptions list:

- File and Printer Sharing
- Network discovery
- Workgroup Only: Remote Administration

To enable Firewall Exceptions selections:

1. Click Start, and then click Control Panel.
2. On the control panel, click Security Center, and then click Windows Firewall.

3. On the left pane, click Allow a program or feature through Windows Firewall.
4. On the Allow programs to communicate through Windows Firewall page, make sure that the following check boxes are checked, and then click OK.
 - File and Printer Sharing
 - Network discovery
 - Workgroup Only: Remote Administration (The Remote Administration selection is not available in Windows 7 by default. Refer to your Window 7 documentation for details on enabling this selection.)

What's next?

You are ready to install Facility Commander Wnx. Refer to Chapter 6 “Installing Facility Commander Wnx Software on additional clients” on page 131.

Chapter 6

Installing Facility Commander Wnx Software on additional clients

Summary

This chapter includes instructions for installation and configuration of Facility Commander Wnx on additional client computers. These computers can be communication clients for hosting controllers and digital video recorders, and available as Imaging stations. Follow instructions in the order presented.

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Defining additional clients

If you have not already done so, you must add the client computers to the Facility Commander Wnx database before installing the Facility Commander Wnx software on the additional clients. Refer to “Adding additional clients to the database” on page 103.

Reaching the First Time License computer over the network

Verify that you can reach the First Time License computer by computer name before you install Facility Commander Wnx on additional clients.

Typical Installation: The server computer is the First Time License computer and you can add clients at the server computer.

Custom Installation: The file components required to license may be stored on two separate computers:

- The file server stores the LicenseInfo file.
- The First Time License computer stores the Facility Commander Wnx Component Services files.

Note: You must be able to reach the computers for both sources.

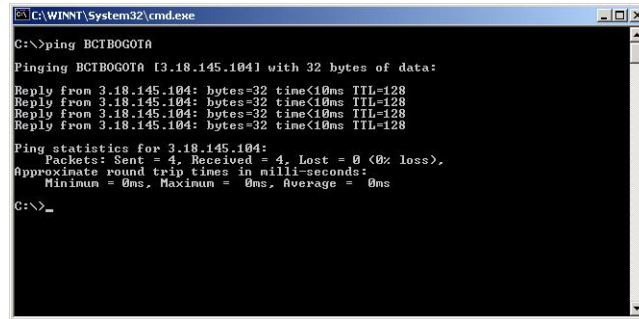
Pinging the First Time License computer

To communicate with the First Time License computer by computer name:

1. Click Start, and then click Run.
2. Type cmd then click OK. A command prompt window opens.
3. Type ping <servername> where <servername> is the name of the First Time License computer. Press Enter.

A successful ping reveals the computer address was reached. Your window should look similar to Figure 76 below. Proceed to install Facility Commander Wnx on the client computer.

Figure 76: Successful ping to server computer

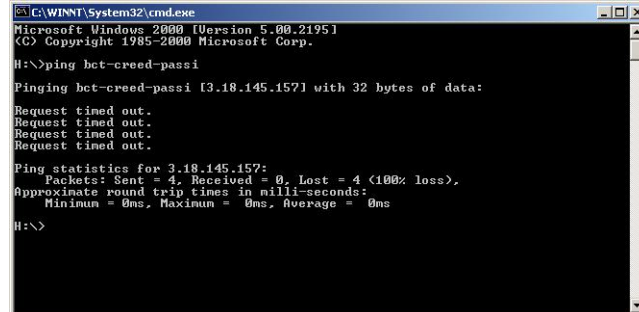


```

C:\WINNT\System32\cmd.exe
C:\>ping BCTBOGOTA
Pinging BCTBOGOTA [3.18.145.104] with 32 bytes of data:
Reply from 3.18.145.104: bytes=32 time<10ms TTL=128
Reply from 3.18.145.104: bytes=32 time<10ms TTL=128
Reply from 3.18.145.104: bytes=32 time<10ms TTL=128
Reply from 3.18.145.104: bytes=32 time<10ms TTL=128
Ping statistics for 3.18.145.104:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 0ms, Maximum = 0ms, Average = 0ms
C:\>_
  
```

If the computer could not be reached, your window will display similar to Figure 77 below. Verify your network settings as configured during the operating system setup (“Installing the operating system” on page 123) or contact your network administrator for assistance.

Figure 77: Unsuccessful ping to server computer



```

C:\WINNT\System32\cmd.exe
Microsoft Windows 2000 [Version 5.00.2195]
(C) Copyright 1985-2000 Microsoft Corp.
H:\>ping hct-creed-pass1
Pinging hct-creed-pass1 [3.18.145.157] with 32 bytes of data:
Request timed out.
Request timed out.
Request timed out.
Request timed out.
Ping statistics for 3.18.145.157:
    Packets: Sent = 4, Received = 0, Lost = 4 (100% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 0ms, Maximum = 0ms, Average = 0ms
H:\>
  
```

Note: You cannot proceed until the networking issues are resolved.

Checking computer accessibility over the network

Another method for checking access to the computer is by using the following command:

1. Click Start, and then click Run.
2. At the Run window, type \\<computer name> where <computer name> is the name of the First Time License computer.

If the computer is found, a window opens listing the shared folders on that computer.

If the computer is not found, you receive a message that the network path was not found.

Installing Facility Commander Wnx: Windows 7, Windows Vista, or Windows XP Professional additional client computer

Before you begin

- Your Facility Commander Wnx system *will not* install unless minimum requirements have been met. Before you begin, refer to “Recommended minimum requirements” on page 2 and “Preinstallation checklist” on page 122.
- If you are installing on a non-English operating system, .NET Framework must be installed in the appropriate language to the operating system you are installing. You cannot install Facility Commander Wnx until this is accomplished.

Starting the installation

Note: If you purchased this system from UTC Fire & Security, Facility Commander Wnx is installed for you. Skip to Chapter 7 “Logging on and configuring Facility Commander Wnx

To install the Facility Commander Wnx application:

1. You *must* be logged in as administrator user to the local computer. If not, log off and log back on as a user with administrator permissions. (If you are logging onto a domain, log off and log on as an administrator to the domain.) This user must also have local administrative privileges.
2. Insert the Facility Commander Wnx installation disc into the CD/DVD drive. If the disc does not launch, you must manually start the software. Using Windows Explorer, navigate to the FCWnx Installation disc and double-click Setup.exe.
3. The Facility Commander Wnx introduction page opens. Click Install.

A series of windows may display as the listed components automatically install if not already there. These components may cause the system to restart when a new version is installed. If your computer restarts, log on as Administrator and installation continues.

- .NET Framework
- Windows Installer

Note: On rare occasions when installing Facility Commander from a DVD drive, the installation will stall for approximately 10 to 20 minutes from the time you click Install to the time when the Welcome to Facility Commander Wnx 7.7 Installation Wizard page opens. If this occurs, it is most likely caused by your anti virus software. If you have anti virus software running, you must configure it so that the DVD drive is not scanned. Refer to the documentation that came with your anti virus software for details.

4. Please wait as the Facility Commander Wnx installation processes updates on your system. When the latest versions of each component are updated and identified, Facility Commander Wnx installation begins, and the Welcome window displays. Continue with “Facility Commander Wnx software installation begins” below.

Facility Commander Wnx software installation begins

Note: A Cancel button displays on every FCWnx installation window. If you click Cancel at any time during the installation, the FCWnx installation process stops, but all Windows components that have been installed must be manually removed.

To install Facility Commander Wnx software on additional client computers:

1. The Facility Commander Wnx Welcome window displays. Click Next.
2. During installation, provide the appropriate answers to prompts as they display.
3. When the License Agreement window displays, select I accept the license agreement.
4. Select Typical or Custom.

Table 10: Selecting an installation type

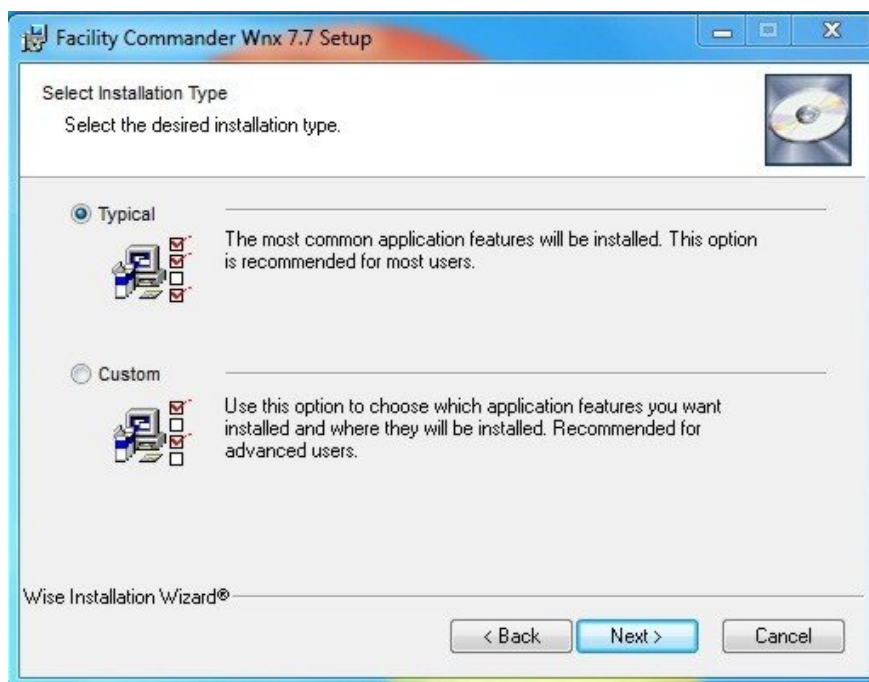
Typical	Custom
<p>The installation requires little user interaction and you do not need to make any special choices.</p> <p>Follow instructions in “Typical installation” below.</p>	<p>If you need to accomplish any one of the following tasks, you must select Custom:</p> <ul style="list-style-type: none"> • If your Facility Commander Wnx database server and file server were installed on one or more separate computers. • If you changed the secure password. • If you installed on a Windows Cluster Server. <p>Note: If you change the default Facility Commander Wnx user password, all computers must use the identical Facility Commander Wnx user replacement password.</p> <p>Continue by proceeding to “Custom installation” on page 138.</p>

Typical installation

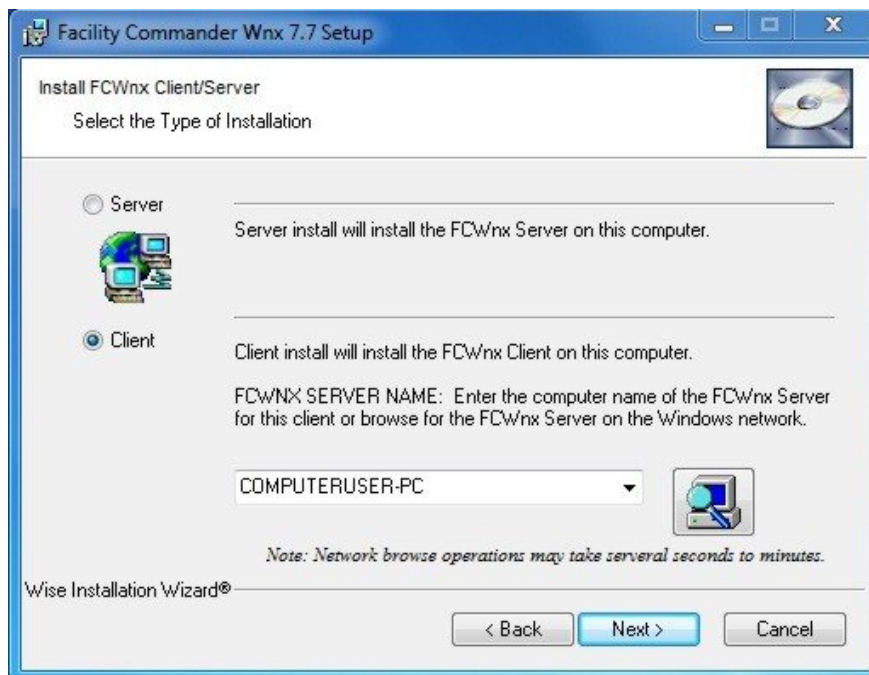
If you choose a Typical installation, follow the instructions below.

To begin a Typical installation:

1. Select the type of installation as Typical.

Figure 78: Select Typical Installation Type

2. Click Next. The Install FCWnx Client/Server window displays as in Figure 79 on page 137.

Figure 79: Select Typical Client Type of Installation

3. At the Install FCWnx Client/Server window, select Client. The FCWnx Server Name field is now available. Enter the name of the Facility Commander Wnx database server and file server for this client workstation or Browse by clicking the computer icon, for the server computer name on the Windows network. (This is the server computer you configured in a previous chapter.)
4. Click Next. The Ready to Install the Application window displays.
5. The default program folder is indicated. You may want to install to another location. Click Browse to navigate to the program folder of your choice for placement of Facility Commander Wnx files.
6. Click Next to continue.
7. Facility Commander Wnx copies system files, updates the system configuration, and displays the Facility Commander Wnx icon on your desktop. This may take a few minutes.
8. When the Facility Commander Wnx has been successfully installed window displays, click Finish.
9. A License Setup, Welcome dialog box displays. Click OK.
10. The Facility Commander Wnx Setup window displays. You are required to license this client installation in order for Facility Commander Wnx to function.
11. Continue with "Licensing the client computer" on page 141.

Custom installation

Caution: Custom Installation is recommended for experienced software installers only.

You must select Custom in order to accomplish the following:

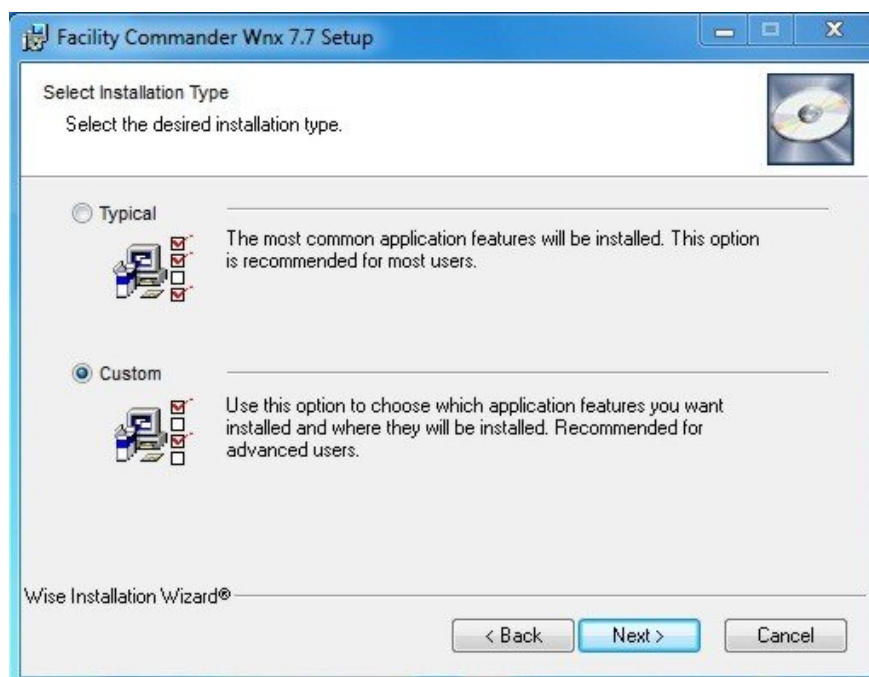
- Complete the configuration when the Database Server and File Server are on different computers.
- Change the secure password.

Note: If you change the default Facility Commander Wnx user password, all computers must use the identical Facility Commander Wnx replacement user password.

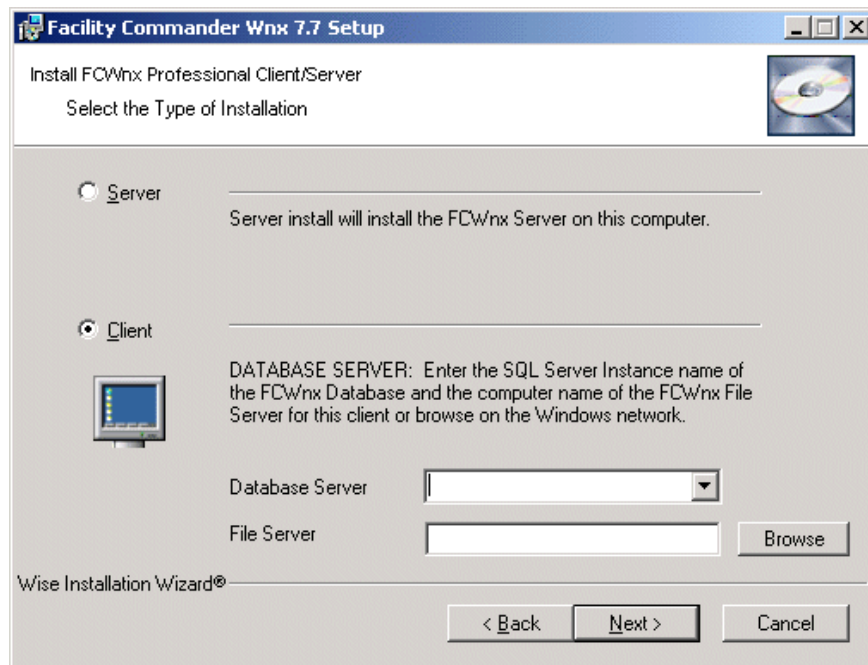
To select type of installation and continue:

1. Select the type of installation as Custom, as displayed in Figure 80.

Figure 80: Select Custom Installation Type

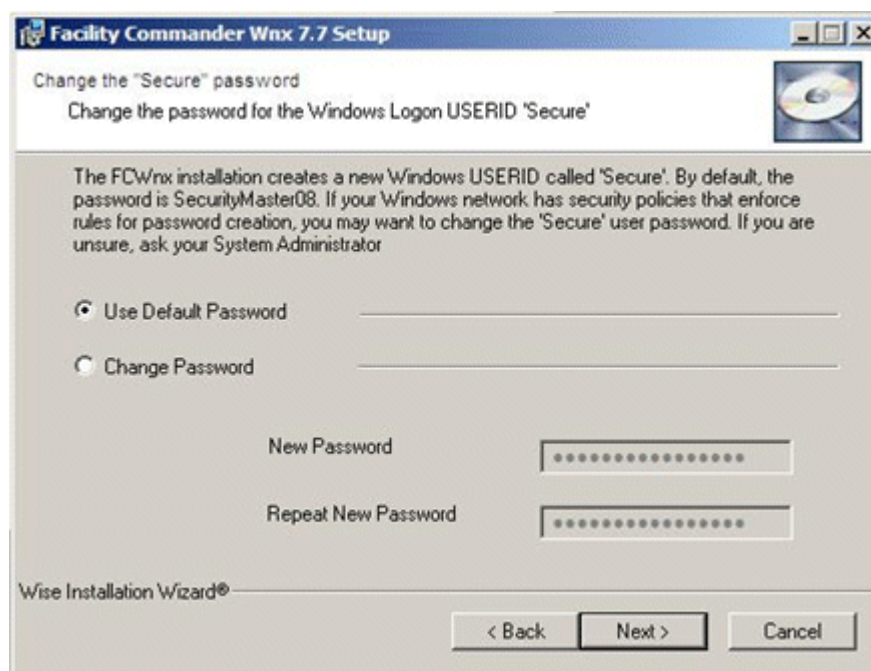


2. Click Next. The Installing Global Edition? window displays. Click No, that this computer is not part of an FCWnx Global Edition installation, and then click Next.
3. The Install FCWnx Client/Server window displays as shown in Figure 81.

Figure 81: Custom Install FCWnx Client/Server

4. Select Client. The Database Server field is now available. Enter the name of the FCWnx database server and SPSQL instance (such as DATABASESERVER\SPSQL) or select from the drop-down list of available server computers for this client.
5. Enter the File Server for this client or Browse for the File Server name on the Windows network. (These are the server computers you configured in the previous chapters.)
6. Click Next. The Change the 'Secure' Password window displays as shown in Figure 82.

Figure 82: Change the “Secure” password window



7. The Facility Commander Wnx installation creates a new Windows User ID called Secure. By default, the password is SecurityMaster08 (case sensitive). If your Windows network has security policies that enforce rules for password creation, you may need to change the secure user password. If you are unsure, ask your system administrator. Select one of the following:

- Use Default Password
- Change Password

Enter your new password and then enter a second time.

Note: This password must be the same for all computers in the Facility Commander Wnx system.

8. Click Next. The Ready to Install the Application window displays.
9. The default Destination Folder is indicated. You may want to install to another location. Click Browse to navigate to another program folder for placement of Facility Commander Wnx files.
10. Click Next to continue. Facility Commander Wnx copies system files, updates the system configuration, and displays the Facility Commander Wnx icon on your desktop. This may take a few minutes.
11. When the Facility Commander Wnx has been successfully installed window displays, click Finish.
12. Continue with “Licensing the client computer” on page 141.

Licensing the client computer

Typically, you are configuring computers that are running additional Facility Commander Wnx client applications. The reminder to license is placed at this point to maintain the proper sequence in completing the installation. At this time, proceed to Chapter 4 “License and configure security settings for your FCWnx system” on page 107.

Note: Reminder: When the licensing sequence is complete, return to this step and continue the installation.

Configuring security settings

The Security Configuration utility launches immediately following the License Setup and assists you in configuring firewall and DCOM settings on your computer. Check with your IT department for company-specific network settings.

Refer to SecurityCnfg Utility on page 116 for more details on using this utility.

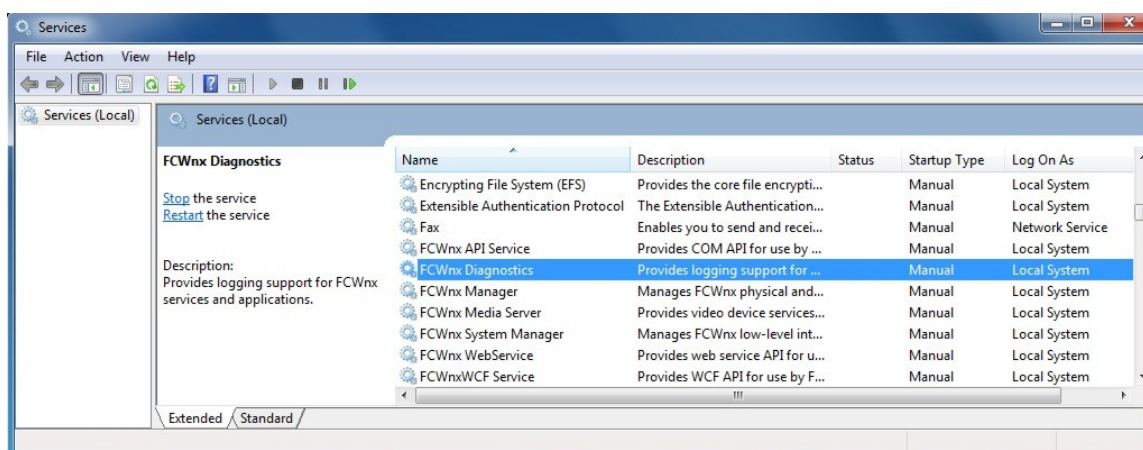
After successfully configuring the security settings:

1. You will receive a Facility Commander Wnx Installation Complete dialog box. Click Yes to restart your computer.
2. Log on as administrator and continue with “Setting services to automatic startup” below.

Setting services to automatic startup

Note: At this point in the installation, the Facility Commander Wnx services are stopped.

Now, you will need to change the startup method of the FCWnx services to automatic. This means every time the computer starts, the Facility Commander Wnx services start.

Figure 83: FCWnx component services

To set the startup method of Facility Commander Wnx Services:

1. Click Start and then click Control Panel
 Category view: Click Performance Maintenance, Administrative Tools, and then click Services.
 Classic view: Click Administrative Tools, and then click Services.
2. Expand the services and scroll down.
3. Select FCWnx Diagnostics.
4. The status will be either Started or blank. If it is blank, then the service is not running.
5. Right-click and select Properties. In the Startup type field, select Automatic.
6. Click Apply, then OK to close the window.
7. Repeat steps 3 through 6 for the following services:
 - FCWnx Manager
 - FCWnx Media Server
 - FCWnx System Manager
 - FCWnx WebService
 - FCWnx WCF Service

Note: FCWnx API Service is used when an external system is sending or receiving transactions by way of Application Program Interface to Facility Commander Wnx.

8. Close all windows and applications.
9. Restart the Facility Commander Wnx client computer.

Logging on to client computer

Note: Restart the client computer at this time if you have not already done so.

During installation of the Facility Commander Wnx software, a default local Windows user is created. You will need to log on to the client computer as a user that is part of the SPAdmin local group. By default, a user secure with the password SecurityMaster08 (case sensitive) was created for you and added to the SPAdmin group.

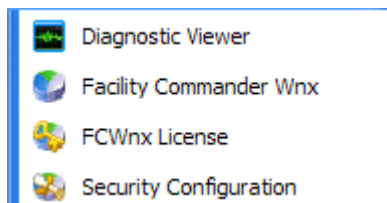
If the services are started, you are now ready to open the Facility Commander Wnx application. Refer to “Setting services to automatic startup” on page 141 to verify if Facility Commander Wnx Services are started.

To access Facility Commander Wnx after installation:

1. To access Facility Commander Wnx from your desktop icon, double-click the Facility Commander Wnx icon, pictured below.



2. As an alternative, access Facility Commander Wnx from the Start menu. Click Start, Programs, and then Facility Commander Wnx. The Facility Commander Wnx menu displays as shown below.



The options are as follows:

- Diagnostic Viewer. Refer to the Diagnostic Viewer online help for details of this option.
- Facility Commander Wnx. Chapter 7 “Logging on and configuring Facility Commander Wnx” on page 149.
- FCWnx License. Refer to “Second and any additional client licenses” on page 111.
- Security Configuration. Refer to “SecurityCnfg Utility” on page 116.

Viewing Imaging status

To verify whether you currently have Imaging capabilities:

1. Log on to Facility Commander.
2. From the Application Group pane, select Monitors & Controls, then Client Monitor. The number of Imaging licenses purchased with your system displays in a lower section of the form.
Note: Keep in mind that Imaging installs on all computers in your Facility Commander Wnx system. Your Facility Commander Wnx license controls the number of Imaging stations active at the same time.
3. Select a client computer from the list displayed, then right-click to display the shortcut menu.
4. Select Client from the shortcut menu. The Client Form opens, displaying the record for the selected client.
5. Select Imaging Status as Enabled and click Save. The photo ID badging system is now enabled for use at this station.

Imaging login setup

If the operator that is running Facility Commander Wnx and Imaging system is not a member of the local Administrator's group, you *must* add the Power Users group to this account. The operator login should belong to at least the following local groups:

- Users
- Power Users
- SPAdmin

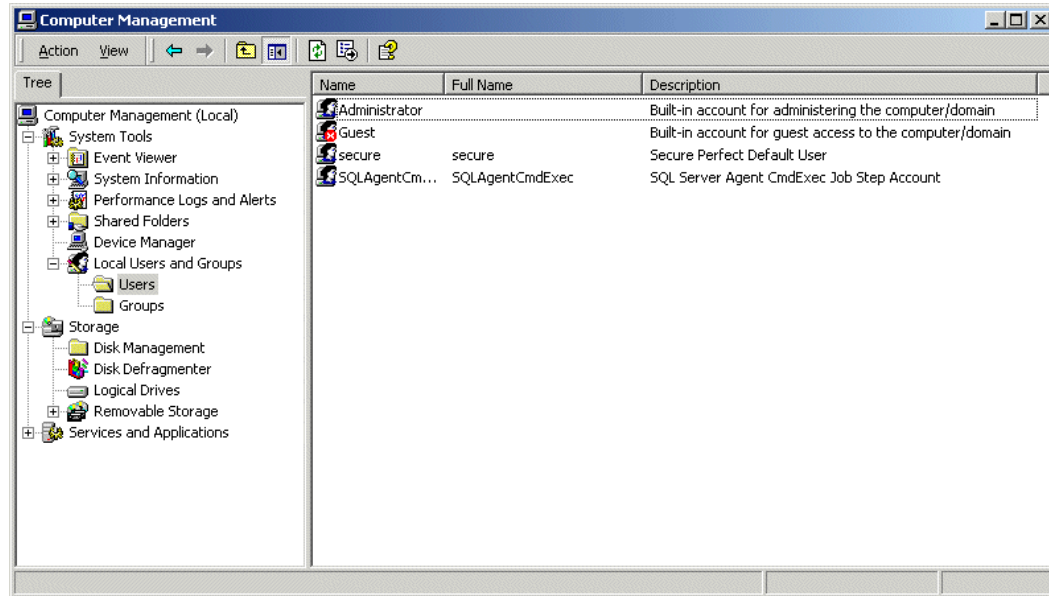
These groups grant the Windows user access to the Imaging system registry keys and file system.

To add an operator to user groups:

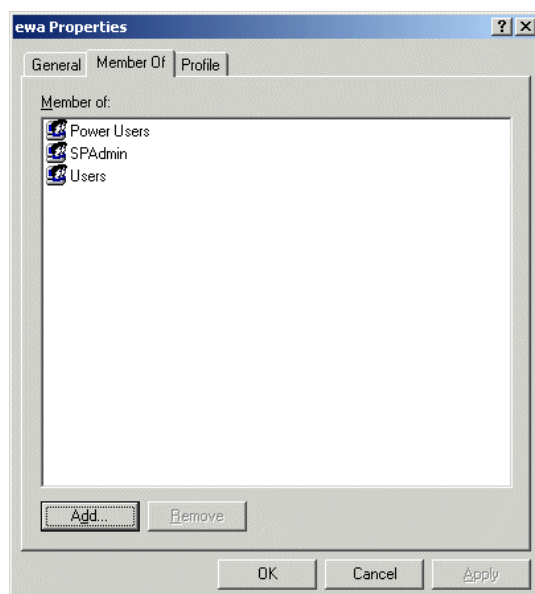
1. Click Start, and then click Control Panel.
Category view: Click Performance Maintenance, Administrative Tools, and then click Computer Management.
Classic view: Click Administrative Tools, and then click Computer Management.
2. The Services window displays. Expand the list of services and scroll down.

3. Select Local Users and Groups, then Users. Your window should look similar to Figure 84 below.

Figure 84: Imaging login setup



4. Double-click the user login Name to which you are adding access to login groups. The user Properties window displays.
5. Select the Member Of tab, then click Add.
6. When the Select Groups window displays, select those groups from the list of Names to which you are adding the user login, click Add, then click OK. The window should look similar to Figure 85 on page 146. The operator running the Facility Commander Wnx and Imaging systems is a member of the groups listed.

Figure 85: Login Groups - Properties window

Client folder structure

During installation of Facility Commander Wnx software, the following folders are created: Client, English, Graphics, Logs, and Rpt. (If this is a Custom installation, the Graphics folder is on the file server.)

Some of the folders are shared. This allows other computers to gain access to the information stored in these folders, as long as they logged in as an authorized user.

Client folders

To review a description of the folders in your FCWnx directory, refer to the following:

Table 11: Client folders

Folder	Description
Config	A folder that contains website configurations for the FCWnx Web Service. The FCWnx Web Service is used by VMC to communicate with FCWnx.
English	The files required to display the Facility Commander Wnx client software in English. As more languages are installed, more language-specific folders will display.

Folder	Description
gmcNls	A folder that contains the language support files for the GMC application. After the base install of FCWnx, these folders are empty as no language kits have been installed yet. As the language kits are installed, the language support files are placed in this folder.
GraphicsCache	A folder that contains the working data files for the GMC application.
jre	A folder that contains the Java Runtime Environment used by GMC and VMC.
Logs	A shared folder that contains the Facility Commander Wnx diagnostic log files.
Rpt	A folder that contains files used by the report engine to create Facility Commander Wnx reports.
UserManuals	A folder that contains the FCWnx and GMC User Manuals in pdf format.
VideoSubsystem	A folder that contains the dlls that enable communication between FCWnx and VMC.
Vmc	A folder that contains the Java code for the VMC application.
vmcNls	A folder that contains the language support files for the VMC application. After the base install of FCWnx, these folders are empty as no language kits have been installed yet. As the language kits are installed, the language support files are placed in this folder.

What's next?

You have completed the client computer setup. Now, proceed to configure the client parameters. Refer to Logging on and configuring Facility Commander Wnx on page 149.

Chapter 7

Logging on and configuring Facility Commander Wnx

Summary

Once you have installed the Facility Commander Wnx software, you will need to log on to the server computer and set a few parameters before beginning to create any controller records or credentials. Review “Getting Started” in the Facility Commander Wnx Online Help for a recommended order of initial setup and configuration.

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Facility Commander Wnx services overview

Windows computers use special programs called services. A service is a process that can automatically start when the system boots and remain running as a background process independently of anyone being logged in.

All computers running Facility Commander Wnx client software use six services:

- *FCWnx Diagnostics* controls the diagnostic information log.
- *FCWnx Manager* controls the communication to and from the controllers and DVRs.
- *FCWnx Media Server* coordinates communications with DVRs and distributing video to clients.
- *FCWnx System Manager* coordinates the communications of data between computers and handles Facility Commander Wnx licensing.
- *FCWnx WCF Service* is used to integrate external devices into FCWnx.
- *FCWnx WebService* coordinates communications for Video Management Control (VMC).

These services run regardless of whether anyone is logged in to Windows or Facility Commander Wnx (unless Auto Shutdown is enabled on the Client Form). In other words, the computer must be turned on but no one needs to be logged in.

These services *must* be running in order for connection to the client computers and for controllers to communicate with their server computer.

If you are going to be using an API interface, your computer will use a seventh service:

- FCWnx API Service can be started manually at the time you install an API interface.

Accessing the Services form

To access the Services form:

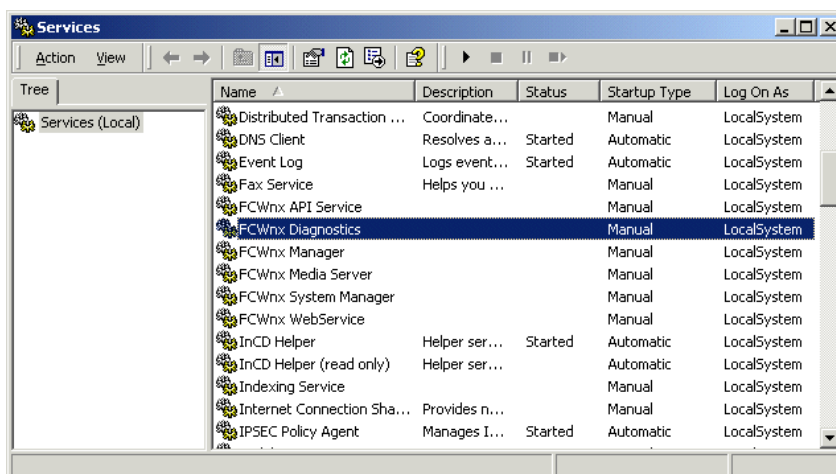
1. Log on with Administrator rights.
2. Click Start, and then click Control Panel.

Category view: Click Performance Maintenance, Administrative Tools, and then click Services.

Classic view: Click Administrative Tools, and then click Services.

3. The Services window opens. Expand the list of services and scroll down. See Figure 87 on page 152.

Figure 86: Facility Commander Wnx services - Windows



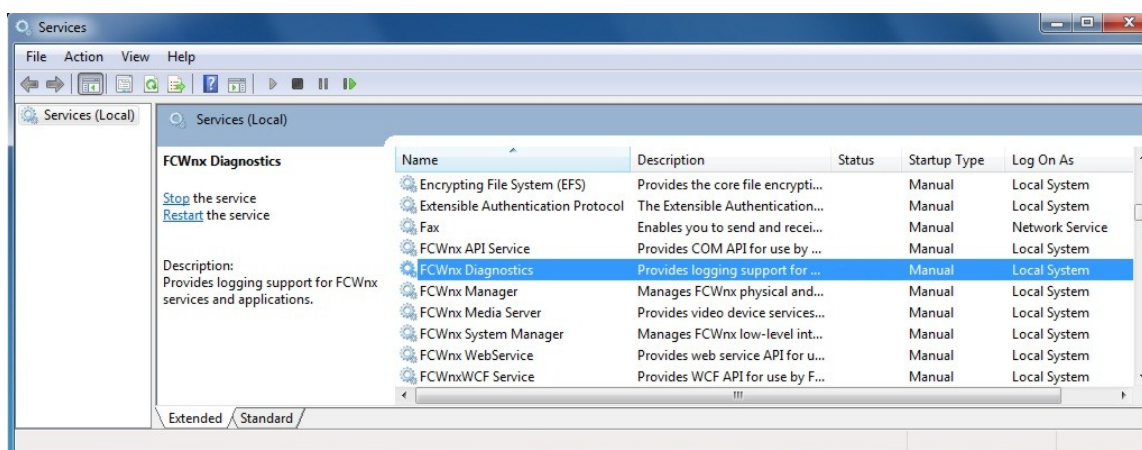
The status will be either Started or blank. If it is blank, then the service is not running.

Caution: Changing the state of services without a good working knowledge of the services' purpose can cause the computer to act erratically!

During your installation sequence, services were set to automatic. Refer to “Setting services to automatic startup” on page 141. Once set to automatic, FCWnx initializes these services with an automatic startup, which means that it starts as soon as the computer is started. We recommend that you do not change this setting. However, should you need to start them manually, keep the following in mind.

These services need to start in the following order (and stopped in the reverse order):

- FCWnx Diagnostics (If you stop FCWnx Diagnostics, all services stop.)
- FCWnx System Manager
- FCWnx WCF Service
- FCWnx Manager
- FCWnx Media Server
- FCWnx Webservice (If you start FCWnx Webservice, all services start.)

Figure 87: FCWnx component services**To start the FCWnx services:**

1. Access the Services form.
2. Right-click FCWnx WebService and select Start.
3. All other services are started.

To stop the Facility Commander Wnx services:

1. Shut down all client applications to ensure that any work in progress is saved.
2. Access the Services form.
3. Right-click FCWnx Diagnostics and select Stop. A message displays informing you that the other services also stop.
4. Click Yes. All other services shut down and lastly, Diagnostics shuts down.

To verify or troubleshoot the Facility Commander Wnx services problems, look at your log files.

To set the FCWnx API Service:

FCWnx API Service is used when an external system is sending or receiving transactions by way of Application Program Interface to Facility Commander Wnx.

Starting Facility Commander Wnx

The Facility Commander Wnx menu contains the following options:

- **Diagnostic Viewer:** Refer to the document, *Diagnostics and Troubleshooting*, on the documentation disc that shipped with your Facility Commander Wnx system, in PDF format or Online Help, for details of this option.
- **Facility Commander Wnx:** Select and then click this option to open the Facility Commander Wnx application.
- **FCWnx License:** Refer to the licensing section of this manual for instructions to license your new system.

The following features are available on machines with Typical Server installed or Custom installation with the database server component installed:

- **Create FCWnx Database:** Select this option if you are creating a database outside of the normal installation sequence. The database creation process is outlined in the appropriate installation section of this manual for your operating system.
- **Database Maintenance Utility:** This menu option opens the database backup, restore, and password utilities.
- **Security Configuration:** Select this option if you need to set the firewall or security settings outside of the normal installation sequence.

Note: The Client menu is detailed in “Logging on to client computer” on page 143.

To open the Facility Commander Wnx client application.

1. To access Facility Commander Wnx from your desktop icon, double-click:



— or —

Access Facility Commander Wnx from the Start menu. Click Start, Programs, then Facility Commander Wnx. Select Facility Commander Wnx.

2. The Facility Commander Wnx program starts. The Facility Commander Wnx menu bar displays a File and Help menu. Log on to access Facility Commander Wnx.

Logging on

Note: Default login ID is secure and the password is SecurityMaster08 (case sensitive). The language is English.

To log on to the Facility Commander Wnx application:

1. Select the File menu and then Login.
2. Enter your login ID and password. If this is a client machine, the server computer must be installed, configured, and licensed. The Facility Commander Wnx services must be running on the server computer.
3. Click OK.

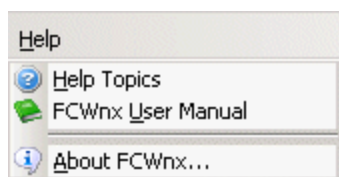
Note: If logging onto Facility Commander Wnx using a client, you *must* have a valid user name, and password, along with a valid Facility Commander Wnx login ID and password on the server computer. Those login IDs must be part of the SPAdmin local group on the Facility Commander Wnx server computer.

Accessing help

To access the Online Help, select Online Help from the Facility Commander Wnx Help menu.

You do not have to be logged in to access Help.

Figure 88: Accessing online help



Defining additional user accounts

Adding additional Windows users is optional but recommended since this clearly identifies each user in Windows.

Note: If you do choose to add additional users, you must assign them to the group 'SPAdmin' after Facility Commander Wnx is installed.

Adding yourself as an operator in Facility Commander Wnx

To add yourself as an operator in Facility Commander Wnx:

1. Log on using the default login ID, secure.
2. Add yourself as an operator in Facility Commander Wnx. This will allow Facility Commander Wnx to track you and the steps you take in setting up the system. To add yourself as an operator, select Administration from the Application Group pane, and then Operator.

For detailed instructions to configure an operator record, refer to the Facility Commander Wnx User Manual or the Online Help.

3. Log off and then log on as the new operator.

Initial setup of Facility Commander Wnx records

Refer to the online help for setting up your system records. The steps follow a specific sequence that is suitable for a smooth system configuration.

Setting up e-mail accounts

Configuring e-mail accounts can be accomplished by selecting Administration from the Application Group pane and then Preference. On the Settings tab, select Enable in the Event Notifier E-mail Support section. This capability allows you to notify an e-mail account when incoming Facility Commander Wnx alarms are received. Refer to the Facility Commander Wnx Online Help for details.

Changing the Facility Commander Wnx server computer name

This section is provided for changes to the computer name, as applicable to your configuration:

- In a Typical installation, to the database server computer.
- In a Custom installation that has the database server, file server, and FCWnx client application installed on the same computer.

For any other scenario, you *must* consult UTC Fire & Security Technical Support for assistance.

You need to change the computer name in three areas:

- In System Properties
- Using the SPServer.exe utility
- Using SQL Server Management Studio

Details are included in the following sections.

Server computer name in system properties

Note: These instructions assume that you are at the server computer of a Typical installation. All database and server components and the Facility Commander Wnx application are on the same computer. If your database and server components and application are on separate and different computers, call UTC Fire & Security Technical Support for assistance.

Note: You must be at the database server computer.

To change the server computer name in the Windows operating system:

1. Stop Facility Commander Wnx services.
2. Windows XP Professional:
 - Right-click the My Computer icon on your desktop, and then click Properties.
 - Select the Computer Name tab from the System Properties window.
3. Windows Vista and Windows 7:
 - Click Start, right-click Computer, and then click Properties.
 - In the Computer name, domain, and workgroup settings, click Change settings. Select the Computer Name tab from the System Properties window.
4. Enter the new name of the server computer. It should consist of a maximum of 15 alphanumeric characters with no spaces.
5. Click Change to open the Computer Name Changes window. You can change the name and the membership of your computer. Changes may affect access to network resources. Click OK or Cancel to return to the System Properties window.
6. Click Apply and then click OK. You will be asked to restart your computer. Select Yes.

Server computer name change using the SPServer.exe utility

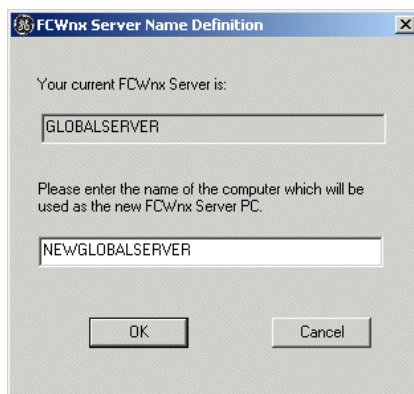
Note: These instructions must be followed on every computer in your Facility Commander Wnx system, including the server computer.

This step changes the computer name for the Facility Commander Wnx application. FCWnx has a utility to assist you in changing your server computer name.

To change the server computer name:

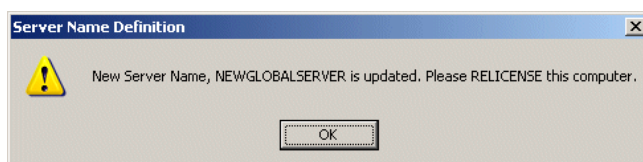
1. Stop Facility Commander Wnx services. If you need assistance, review “Facility Commander Wnx services overview” on page 150.
2. Navigate to the FCWnx folder of your server computer. The default is Program Files\GE\FCWnx.
3. Double-click the SPServer.exe file. The FCWnx Server Name Definition window displays similar to Figure 89 below.

Figure 89: FCWnx Server Name Definition window



4. Your EXISTING server computer name displays as a read-only field. Ignore this field.
5. Enter the NEW server computer name in the appropriate field.
6. Click OK. A Server Name Definition dialog box displays an update message similar to the following:

Figure 90: Server Name Definition Update message



7. Click OK to close this window.
8. Relicense your Facility Commander Wnx system at this time.

If the computer has not changed, just the computer name, you can use your existing license key provided at the time you purchased your system.

If the computer has changed, your system needs to be relicensed with a NEW license key. Be prepared to obtain a new license from UTC Fire & Security. Refer to “Generating a registration key” on page 108.
9. Click OK.
10. Proceed to change the server computer name on all clients in your Facility Commander Wnx system, repeating the steps beginning with “Server computer name in system properties” on page 156.

Note: Remember to change the client name in the Facility Commander Wnx application, Client table.

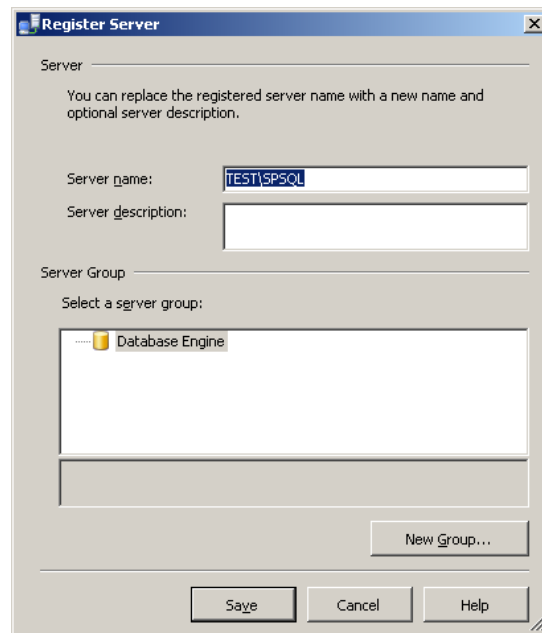
Re-creating a Microsoft SQL Server registration

This step changes the computer name for the Microsoft SQL Server program.

Microsoft SQL Server 2005/2008

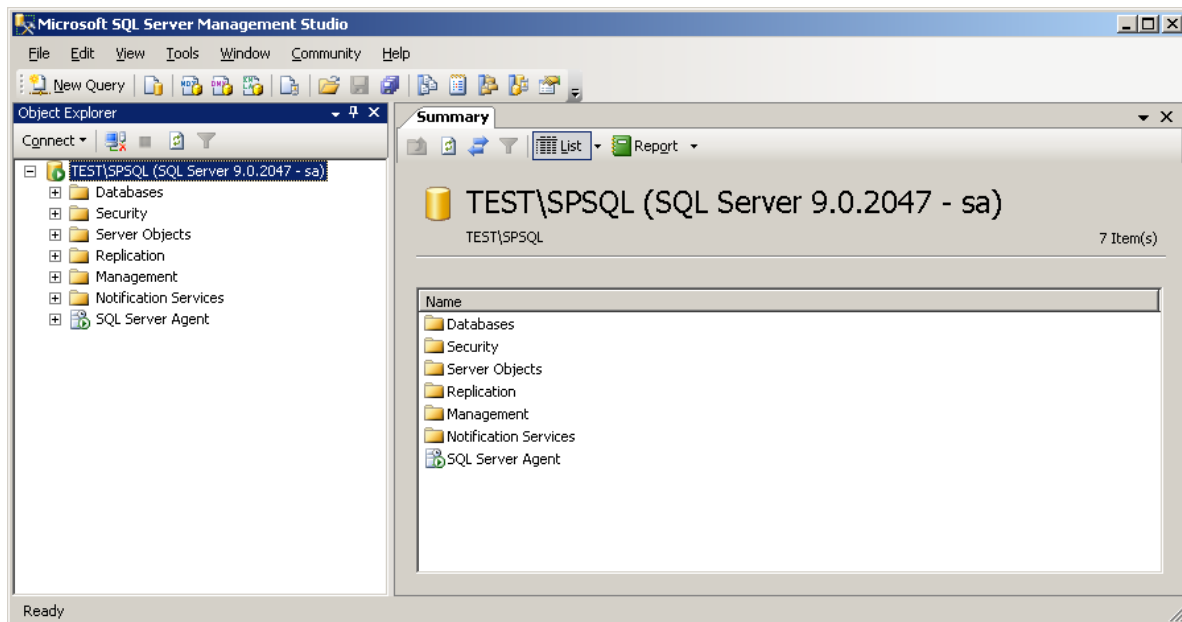
To change the computer name in Microsoft SQL Server 2005/2008:

1. Click Start, Programs, Microsoft SQL Server 2005 or 2008, and then SQL Server Management Studio.
2. At the Connect to Server dialog, connect to your SPSQL instance.
3. Select, then right-click your computer name and SPSQL instance.
4. Select Register.
5. In the server name field, enter the new name of the server computer and then click Save.

Figure 91: Register Server

6. Click the Server drop-down list to display the list of server names in your Facility Commander Wnx network system. Your newly created server name should display on this drop-down list. Select your new server name.
7. Select Connect. The password fields are now available for entry.
8. Enter the 'sa' login name and 'sa' password.
9. Do not change any other selections.
10. Click OK. The new server name displays in your Microsoft SQL Server Management Studio navigation tree similar to Figure 92 on page 160.

Figure 92: SQL Server Enterprise Manager navigation tree



11. Close the Microsoft SQL Server Management Studio.

Chapter 8

Logging off and shutting down

Summary

This chapter details the process of exiting, logging off, or shutting down Facility Commander Wnx and your computer.

Content

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Quitting Facility Commander Wnx application	161
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Logging off of Windows	162
Automatic client shutdown	163

Exiting Facility Commander Wnx

When exiting Facility Commander Wnx, you have two options:

- Exit
- Log Off

Exit logs off the operator and shuts down the Facility Commander Wnx client application.

Log off allows an operator to log off and another operator to log on without exiting the program.

Quitting Facility Commander Wnx application

You have the option of logging off without shutting down the computer. In this case, the Facility Commander Wnx services are still running. However, you will

not receive any alarm notifications. To receive these notifications, you need to have the Facility Commander Wnx client application running. If you select the option to receive notifications on the Client Form, you need to be logged in to the Facility Commander Wnx client application. The alarm notification displays based on the operator's facility assignment which is evaluated upon login to the Facility Commander Wnx application.

Shutting down

Caution: You can cause serious damage to your computer if you do not follow the procedure above. In fact, the resulting damage may require that you reload all the software on your computer.

To do a total shutdown of Facility Commander Wnx and your computer:

1. Exit the Facility Commander Wnx client application by selecting Exit from the File menu. Enter your password in the Password field of the Exit window and click OK.
2. From the Desktop, click Start, then Shut Down.
3. From the Shut Down Windows form, select the Shut down option and click OK.

Logging off of Windows

To log off:

1. Exit Facility Commander Wnx by selecting Exit from the File menu. Enter your password in the Password field of the Exit window and click OK.
2. From the Desktop, click Start, then Shut Down.
3. From the Shut Down Windows form, select Log off xxxx (where xxxx is the user name that was used to log on.) Click OK.
4. This logs off the current user and allows another user to log on. Keep in mind that the Facility Commander Wnx services are still running but you will not receive any alarm notifications.

Note: Also see “Facility Commander Wnx services overview” on page 150, for additional information relating to Facility Commander Wnx services.

Automatic client shutdown

Services will automatically shut down if this option is selected on the Client Form (unless you disable Auto Shutdown on the Parameter Form) when a client closes the Facility Commander Wnx application and meets all of the following criteria:

- Does not host any controllers or DVRs.
- Does not have any API connections.
- Does not host a thin client.
- Is not a backup client for or have any backup clients of its own.
- Is not a CCTV client.
- Does not host a guard tour.

The shutting down of a particular client computer designates that license capacity unused. Now, that license is available for another computer that can now be designated a Facility Commander Wnx client.

Chapter 9

Back up and restore your Enterprise server

Summary

This chapter provides information for system administrators to archive, back up, and restore the Facility Commander Wnx Enterprise system.

Content

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- Enterprise system recovery checklist 166
- Backing up 167
 - Backing up the databases 168
 - Backing up Facility Commander Wnx folders 170
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- Restoring 170
 - Restoring SecurePerfectArchive database 170
 - Restoring SecurePerfect database 172
 - Restoring SecurePerfectHistory 173
 - Restoring the Facility Commander Wnx folder 174
- Reclaiming hard drive space 174

Overview

What's the difference between archiving and backing up?

- Archiving creates a copy of the latest history transactions. You will still need to back up the archive file in order to maintain a copy. Refer to the Facility Commander Wnx Online Help or the Facility Commander Wnx User Manual on the Documentation disc for details of this function.
- Backing up creates a copy of selected data, such as a database or archive, and stores it either on the computer or on another media, such as tape, zip discs, CD/DVD, or a network folder.

Enterprise system recovery checklist

If your system or hard drive crashes, your database may be determined to be beyond repair. Follow a sequence of steps to recover your system.

To assist you in recovering your Facility Commander Wnx Enterprise system, refer to this checklist. Complete the steps in the order they are listed here.

- Install Windows 2003 or Windows 2008 Server operating system. Install applicable operating system service packs. (Refer to Chapter 2 “Windows Server 2003/2008 Standard and Enterprise Edition Server setup” on page 7.)
- Install SQL Server 2005 or SQL Server 2008. (Refer to “Installing Microsoft SQL Server” on page 16.)
- Install Facility Commander Wnx software from the installation disc. (Refer to Chapter 3 “Installing Facility Commander Wnx Enterprise Edition Server” on page 33.)

Using SQL Server 2005 or SQL Server 2008 Management Studio, restore the three Facility Commander Wnx databases from your backup media (SecurePerfect, SecurePerfectHistory, and SecurePerfectArchive). (Refer to “Restoring” on page 170.)

- Restore the Designs and Video folders from your backup media to the appropriate folders. (Refer to “Restoring the Facility Commander Wnx folder” on page 174.)
- If restoring to a different server computer with a different server name, you will need to run a script to reset the database security. Refer to “Changing the

Facility Commander Wnx server computer name” on page 155. Follow the steps in the order they are listed.

- Run the licensing program, Facility Commander Wnx License, and enter your 35-character license key string. (Refer to Chapter 4 “License and configure security settings for your FCWnx system” on page 107.)
- Restart the computer.

Backing up

A backup is a copy of selected data. Since Facility Commander Wnx does not contain a backup option, you can use any method you like to back up the data.

Note: Using SQL Server Enterprise Manager, backups can be scheduled so that you do not have to remember to back up your databases.

You should keep two backups of the server computer:

- The Facility Commander Wnx data
- The entire Facility Commander Wnx installation

Facility Commander Wnx data

You should back up this data more often since it changes so frequently. While your internal policies may dictate your backup requirements, we recommend that you create a backup at least every week.

Table 12: Facility Commander Wnx data include the following

Element	Description
Main Database	Contains configuration data, such as credentials and controllers.
History Database	Contains current history including credential transactions and operator history.
Archive Database	Contains copies of Facility Commander Wnx history data based on archive period.
Externals	A shared, empty folder created to store reports created by third party report generators.
Designs	Contains the credential design files. The Designs folder is located in the Facility Commander Wnx folder.
Video	A shared folder that contains captured video files.

Entire Facility Commander Wnx installation.

The entire Facility Commander Wnx folder should be backed up when you first set up the system and have confirmed that it is working, and any time you upgrade. It is very important that you also back up the registry settings. In most backup programs, you will be prompted to back up these settings.

Always maintain a current backup. If you have any problems with your system, you are able to restore your backup. This includes your databases as well as your files.

Backing up the databases

There are three databases:

- SecurePerfect database contains configuration data, such as credentials and controllers. It should be backed up on a continual basis since the information may change frequently.
- SecurePerfectArchive database contains copies of Facility Commander Wnx history data. It should be backed up on a continual basis since the information will change frequently based on your archive interval set on the Preference form.
- SecurePerfectHistory database contains current history including credential transactions, alarm transactions, and operator history. It should be backed up on a continual basis since the information may change frequently.

Using SQL Server to back up databases

Before you back up your database:

1. Verify that you have the correct permission level to access the database. We recommend logging on as Administrator 'sa' or whatever the current Administrator login assigned at installation.
2. Click Start, Programs, Microsoft SQL Server 2005 or 2008, and then SQL Server Management Studio.
3. At the Connect to Server window, verify that the Login and Password are correct, then click Connect.
4. Navigate to and open the Databases folder. This procedure may take several minutes.

Note: Although there are other methods, we have included the following steps as a guide to assist you in performing one type of backup.

To back up your database:

1. Right-click the database (SecurePerfect, SecurePerfectArchive, or SecurePerfectHistory) you want to back up. The shortcut menu displays.
2. Click Tasks, then Back Up. The Backup Database dialog box displays.
3. In the Backup type drop-down box, select Full.
4. In the Name field, you can keep the default or choose a different name.
5. Under the Destination, you can choose either Disk or Tape.
6. Edit the file path name as appropriate for the folder that you have created to receive the database. Do not change the database name. Click OK.

If backing up:

- the SecurePerfect database, *do not* change the database name.
- either SecurePerfectArchive or SecurePerfectHistory, you *must* change the file name each time you back up or the file is overwritten!

Note: We recommend that you select the device or a file on a network.

7. In the Select a page pane, click on Options to display the Options page.
8. You may select either Overwrite all existing backup sets or Append to the existing backup set. The latter option is useful when using a tape that can hold a large quantity of data. We recommend that you append to the file.
9. You can schedule the backup. We recommend that you refer to the SQL Online Help for more information.
10. We recommend that you select Verify backup when finished option to guarantee that you perform a good backup.
11. Click OK to start the backup.
12. When the Backup operation has been completed successfully window displays, click OK.
13. If you are backing up more than one database at this time, repeat the steps in this section each database you want to back up.

Backing up Facility Commander Wnx folders

We recommend that you back up the following folders. If you purchased your system from UTC Fire & Security, then your system contains a CD/DVD-RW drive that can be used for backup purposes.

- Designs
- Externals
- Videos

To back up Facility Commander Wnx folders:

1. In Microsoft Explorer, navigate to the Facility Commander Wnx program folder. Select the Designs, Externals, and Video folders.
2. Copy the folders to your backup media.

Backing up the entire Facility Commander Wnx folder

The entire Facility Commander Wnx folder should be backed up when you first set up the system and have confirmed that it is working, and any time you upgrade.

Refer to the “Backing up Facility Commander Wnx folders” above for specific instructions on backing up to CD/DVD-RW drives and tape drives.

Restoring

How you restore depends on how you backed up the system. What you should restore is detailed below.

- Restoring your SecurePerfectArchive will happen more frequently than other restores in order to run reports.
- Restoring your SecurePerfect database and SecurePerfectHistory should *only* be done if you are having problems with your system or if you are upgrading.
- Restoring your entire Facility Commander Wnx folder should *only* be done if you are having problems with your system.

Restoring SecurePerfectArchive database

You may need to restore backups of your archive more frequently in order to run reports on that data.

These restoration procedures are guidelines only. Additional detailed information is located in the literature received with the SQL Server software and Help system.

Using SQL Server to restore the SecurePerfectArchive backup

Before you restore the SecurePerfectArchive backup:

1. Verify that all Facility Commander Wnx network clients other than the Enterprise server computer have logged off and that the Facility Commander Wnx services are shut down.
2. Back up your current archive. See “Backing up the databases” on page 168.
3. We recommend that you select the Options tab, then select Verify backup upon completion option to guarantee that you perform a good backup.

To start the restore of the SecurePerfectArchive database backup:

1. Click Start, Programs, Microsoft SQL Server 2005 or 2008, and then SQL Server Management Studio.
2. At the Connect to Server window, select your FCWnx server, verify the password, then click Connect.
3. Navigate to the Databases folder.
4. In the Databases folder, right-click SecurePerfectArchive to display the shortcut menu.
5. Select Tasks, Restore, then Database. The Restore Database dialog box should be displayed. If not, select it.
6. In the To database field, select SecurePerfectArchive.
7. Select From device and click... to display the Specify Backup window.
8. Click Add and navigate to the backup file. Click Ok.

If the backup file is on another computer in your network, create a folder on your computer, then move the file to your FCWnx computer into the newly created folder.

The one file to be restored should look similar to:

c:\Program Files\Microsoft SQL Server\Backup\SecurePerfectArchive-db-200007140007.BAK

9. Click OK to close the Specify Backup window.
10. Select the backup set you just added by checking the Restore check box.
11. In the Select a page navigation pane, select Options.
12. In the Restore options section, select Overwrite the existing database.

13. Click OK. The Progress windowpane shows the progress of the restoration.
14. Upon completion, a dialog box displays with a message stating the database was restored successfully. Click OK to close the dialog box.
15. Continue with “Restoring SecurePerfect database” below, if necessary.

Restoring SecurePerfect database

You should restore the Facility Commander Wnx SecurePerfect database backup *only* if you have problems with your Facility Commander Wnx system and all other attempts to correct the system have failed.

These restore procedures are guidelines only. Additional detailed information is located in the literature received with the SQL Server software and Online Help

To restore the SecurePerfect backup using SQL Server:

1. Verify that all Facility Commander Wnx network clients other than the Enterprise server computer have logged off and that the Facility Commander Wnx services are shut down.
2. Click Start, Programs, Microsoft SQL Server 2005 or 2008, and then SQL Server Management Studio.
3. At the Connect to Server window, select your FCWnx server, verify the password, then click Connect.
4. Navigate to the Databases folder.
5. In the Databases folder, right-click SecurePerfect to display the shortcut menu.
6. Select Tasks, Restore, then Database. The Restore Database dialog box should be displayed. If not, select it.
7. In the To database field, select SecurePerfect.
8. Select From device and click... to display the Specify Backup window.
9. Click Add and navigate to the backup file. Click Ok.

If the backup file is on another computer in your network, create a folder on your computer, then move the file to your FCWnx computer into the newly created folder.

The one file to be restored should look similar to:

c:\Program Files\Microsoft SQL Server\Backup\SecurePerfect.BAK

10. Click OK to close the Specify Backup window.
11. Select the backup set you just added by checking the Restore check box.

12. In the Select a page navigation pane, select Options.
13. In the Restore options section, select Overwrite the existing database.
14. Click OK. The Progress windowpane shows the progress of the restoration.
15. Upon completion, a dialog box displays with a message stating the database was restored successfully. Click OK to close the dialog box.
16. Continue with “Restoring SecurePerfectHistory” below, if necessary.

Restoring SecurePerfectHistory

You should restore the SecurePerfectHistory backup *only* if you have problems with your Facility Commander Wnx system and all other attempts to correct the system have failed.

These restore procedures are guidelines only. Additional detailed information is located in the literature received with the SQL Server software and Help system.

To restore the SecurePerfectHistory backup using SQL Server:

1. Verify that all Facility Commander Wnx network clients other than the Enterprise server computer have logged off and that the Facility Commander Wnx services are shut down.
2. Click Start, Programs, Microsoft SQL Server 2005, or 2008, and then SQL Server Management Studio.
3. At the Connect to Server window, select your FCWnx server, verify the password, then click Connect.
4. Navigate to the Databases folder.
5. In the Databases folder, right-click SecurePerfectHistory to display the shortcut menu.
6. Select Tasks, Restore, then Database. The Restore Database dialog box should be displayed. If not, select it.
7. In the To database field, select SecurePerfectHistory.
8. Select From device and click... to display the Specify Backup window.
9. Click Add and navigate to the backup file. Click Ok.

If the backup file is on another computer in your network, create a folder on your computer, then move the file to your FCWnx computer into the newly created folder.

The one file to be restored should look similar to:

c:\Program Files\Microsoft SQL Server\Backup\ SecurePerfectHistory-db-200007140007.BAK

10. Click OK to close the Specify Backup window.
11. Select the backup set you just added by checking the Restore check box.
12. In the Select a page navigation pane, select Options.
13. In the Restore options section, select Overwrite the existing database.
14. Click OK. The Progress windowpane shows the progress of the restoration.
15. Upon completion, a dialog box displays with a message stating the database was restored successfully. Click OK to close the dialog box.
16. Continue with “Restoring the Facility Commander Wnx folder” below , if necessary.

Restoring the Facility Commander Wnx folder

How you restore depends on how you backed up the system.

To restore from CD/DVD-RW drive:

1. In Microsoft Windows Explorer, navigate to the Facility Commander Wnx program folder.
2. Copy the selected folders from your backup media to your Facility Commander Wnx folder. You may need to deselect the Read-Only attribute on the folder's properties.

Reclaiming hard drive space

In time, you will notice that the database continues to use more and more hard drive space. Some of this space can be reclaimed by shrinking the database. Refer to your SQL server documentation for details and available options.

Chapter 10

Uninstall Facility Commander Wnx or delete a database

Summary

This chapter outlines instructions for removal of software and deleting a database.

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 - Before you begin 176
 - Uninstalling 176
 - Uninstalling Facility Commander Wnx installed components 177
 - Verifying and cleaning up after an uninstall 177
- Deleting the database 178
 - Facility Commander Wnx Enterprise Server 178
- Removing Microsoft SQL Server 179
 - MS SQL Server 2005 or 2008 Standard Edition 179

Uninstalling Facility Commander Wnx software

Before you begin

Before you uninstall Facility Commander Wnx, make sure that:

- All clients are logged off.
- All Facility Commander Wnx applications, such as DiagView, are closed.
- All Facility Commander Wnx services are stopped. Refer to “Facility Commander Wnx services overview” on page 150.

Uninstalling

To uninstall Facility Commander Wnx:

1. Log on as someone with administrative privileges, such as administrator.
2. Click Start, Control Panel, and then Add/Remove Programs.
3. From the list of currently installed programs that display, select Facility Commander Wnx 7.7.
4. Click Remove. The Add or Remove Programs window opens asking you to confirm the action. Click Yes.
5. Uninstall begins and a status bar indicates the uninstall progress. Once the uninstall begins, the Cancel button is unavailable.
6. When uninstall is complete, click Finish, then exit the Add/Remove Programs window and the Control Panel.

The database and log files are not removed during the uninstall of Facility Commander Wnx on the server computer.

If the uninstall does not proceed (hangs), do the following:

1. Press Ctrl-Alt-Delete. The Windows Security Dialog opens.
2. Click Task Manager.
3. At the Task Manager window, Facility Commander Wnx 7.7 displays a status of Not Responding.
4. Select the line Facility Commander Wnx 7.7 and click End Task.
5. At the next dialog, click End Task again.

Uninstalling Facility Commander Wnx installed components

Note: Facility Commander Wnx 7.7 also installs the following components. If you want to completely remove all installed components, proceed with the following procedure.

- Facility Commander Wnx 7.7 Imaging Runtime
- Facility Commander Wnx 7.7 Crystal Reports Runtime

To uninstall Facility Commander Wnx 7.7 Imaging Runtime and Facility Commander Wnx 7.7 Crystal Reports Runtime:

1. Log on as someone with administrative privileges, such as administrator.
2. Click Start, Control Panel, and then Add/Remove Programs.
3. From the list of currently installed programs that display, select Facility Commander Wnx Imaging Runtime.
4. Click Remove or Uninstall. The Add or Remove Programs window opens asking you to confirm the action. Click Yes.
5. When uninstall is complete, click Finish.
6. Repeat steps 3 through 5 for Facility Commander Wnx Crystal Reports Runtime.
7. Exit the Add/Remove Programs window and the Control Panel.

Verifying and cleaning up after an uninstall

You may encounter problems while uninstalling from a server computer. Sometimes, this results in an incomplete uninstall which means miscellaneous files are left behind. If you did encounter problems, the sections that follow detail some troubleshooting steps to assist you in troubleshooting your uninstall. The first step is to verify that Facility Commander Wnx uninstalled cleanly. Refer to “Verifying Facility Commander Wnx uninstalled cleanly” below.

Verifying Facility Commander Wnx uninstalled cleanly

Check the Facility Commander Wnx folder and verify that the Database and Logs folders are the only items left.

To verify a Facility Commander Wnx uninstall:

1. Go to Windows Explorer and navigate to your Facility Commander Wnx folder. The default setting is Program Files\GE\FCWnx.

2. You should see the Database and Logs folders only. If you see any other files, select them and click Delete.
3. Next, continue with “Deleting the database” below.

Deleting the database

Caution: The following steps cannot be done if you have already uninstalled Microsoft SQL Server software.

Facility Commander Wnx Enterprise Server

As we have mentioned earlier, the database is not removed when you uninstall Facility Commander Wnx from the server computer.

Caution: Make a backup of your database before performing these steps!

SQL Server

To delete the database from the Facility Commander Wnx Enterprise Server:

1. Click Start, Programs, Microsoft SQL Server 2005 or 2008, and then SQL Server Management Studio.
2. At the Connect to Server window, verify that the Login and Password are correct then click Connect.
3. Locate and open the Databases folder.
4. Right-click SecurePerfectHistory to display the shortcut menu.
5. At the menu, select Delete.
6. The Delete Object window opens. Click Ok to delete this database.
7. Right-click SecurePerfectArchive to display the shortcut menu.
8. Select Delete.
9. The Delete Object window opens. Click Ok to delete this database.
10. Right-click SecurePerfect to display the shortcut menu.
11. Select Delete.
12. The Delete Object window opens. Click Ok to delete this database.

13. From the Microsoft SQL Server Management Studio main menu, select File, then Exit.

Removing Microsoft SQL Server

MS SQL Server 2005 or 2008 Standard Edition

Caution: Removing Microsoft SQL Server will delete all Facility Commander Wnx databases.

If you are required to remove Microsoft SQL Server software due to file corruption beyond recovery, you will need to perform the following procedure.

1. Stop SQL Server services.
2. Stop any applications that are currently using SQL Server software.
3. Back up your database files. See “Overview” on page 166.

To uninstall Microsoft SQL Server software:

1. Click Start, select Settings, Control Panel, and then Add/Remove Programs.
2. On the Add/Remove Program Properties page, select Microsoft SQL Server 2005 or 2008.
3. Click Remove.
4. You will receive a Microsoft SQL Server 2005 or 2008 Uninstall popup window asking you to select the components to remove. Select the items to remove, then click Next.
5. A Confirmation window opens listing the items you selected to remove. Click Finish to start the uninstall.
6. You are returned to the Add/Remove Programs window.
7. Restart the server computer.

Chapter 11

Troubleshooting, maintenance, support

Summary

This chapter provides information to help you troubleshoot problems and contact technical support in case you need assistance with your UTC Fire & Security equipment.

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Troubleshooting

This section provides information to help you diagnose and solve various problems that may arise while configuring or using your UTC Fire & Security product and offers technical support contacts in case you need assistance. See “Contacting technical support” on page 186.

Installing FCWnx

Symptom: A message displays similar to the following:

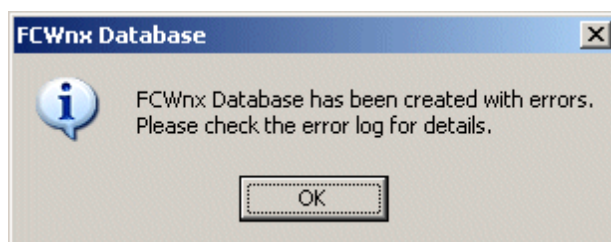
Some programs will not install correctly if you do not have administrative privileges on this computer.

Solution: You are logged in as a user who does not belong to the Administrators group. The FCWnx software can only be installed by a user who belongs to the Administrators group. Log off, then log on as a user who belongs to the Administrators group or add the user to the Administrators group.

Database creation errors

Symptom: A message displays similar to the following:

Figure 93: Database Creation Error



Solution: Review the SPCreateDB.txt error log and correct any installation configuration problems.

- If you were able to resolve the problem, recreate the database.
- If you continue to have a problem, contact UTC Fire & Security Customer Support.

Installing and uninstalling

Uninstalling FCWnx

If the uninstall does not proceed (hangs), follow the instructions below.

To uninstall FCWnx:

1. Click Ctrl-Alt-Delete.
2. The Windows Security dialog opens.
3. Click Task Manager.
4. At the Task Manager window, Install displays a status of Not Responding.
5. Select the line Uninstall and click End Task.
6. At the next dialog, click End Task again.
7. Once the steps above are completed, continue with the next section, “Verifying and cleaning up after an uninstall” below.

Verifying and cleaning up after an uninstall

You may encounter problems while uninstalling from a server computer. Sometimes, this results in an incomplete uninstall which means miscellaneous files are left behind. If you did encounter problems, the sections that follow detail some troubleshooting steps to assist you in troubleshooting your uninstall. The first step is to verify that Facility Commander Wnx uninstalled cleanly. Refer to “Verifying FCWnx uninstalled cleanly” below.

Verifying FCWnx uninstalled cleanly

Check the Facility Commander Wnx folder and verify that the Database and Logs folders are the only items left.

To verify a Facility Commander Wnx uninstall:

1. Go to Windows Explorer and navigate to your Facility Commander Wnx folder. The default setting is Program Files\GE\FCWnx.
2. You should see the Database and Logs folders only. If you see any other files, select them and click Delete.
3. Next, continue with “Deleting subkeys from the registry” below.

Deleting subkeys from the registry

Caution: Using the Registry Editor incorrectly can cause serious problems that may require you to reinstall your operating system. Neither UTC Fire & Security nor Microsoft guarantee that problems resulting from the incorrect use of Registry Editor can be solved. Use Registry Editor at your own risk!

To delete the FCWnx subkey from the registry:

1. Click Start, then Run.

2. In the Run window, enter: regedit
3. Click OK.
4. Locate the HKEY_LOCAL_MACHINE key.
5. Double-click the SOFTWARE icon to expand the folder tree.
6. If you find a GE key in this folder, double-click the GE key to expand the folder tree.
7. If you find an FCWnx key, right-click the key, and then click Delete.
 - If you have a problem deleting the FCWnx key, you may need to change the registry permission. Refer to “Changing registry permissions” below.
 - If you do not have an FCWnx or a GE key, this is an indication that the uninstall was successful in updating the Registry. Continue with step 8.

You are asked to confirm the deletion.

8. Click Yes.
9. From the main menu, select Registry, then Exit.
10. Restart your computer at this time.

Changing registry permissions

If you have an FCWnx key and need to change permission for the registry:

Caution: Using the Registry Editor incorrectly can cause serious problems that may require you to re-install your operating system. Neither UTC Fire & Security nor Microsoft guarantee that problems resulting from the incorrect use of Registry Editor can be solved. Use Registry Editor at your own risk!

To change registry permissions:

1. Click Start, then Run.
2. In the Run window, enter: regedt32
3. Click OK.
4. Locate the HKEY_LOCAL_MACHINE key.
5. Double-click the SOFTWARE icon to expand the folder tree.
6. Select GE and double-click the GE icon to expand the folder tree.
7. Select FCWnx.

Note: If FCWnx is not there, do not proceed. Check with your Information Systems Department.

Registry permission validation

1. From the main menu, select Edit, then Permissions.
2. In the Group or user names window, locate and select SPAdmin.
3. Click Advanced.
4. Select the Allow inheritable permissions from the parent to this object and all child objects. Include these with entries explicitly defined here check box.
5. Click Apply, then click Ok.
6. In the Permissions portion of the Security window, select Allow for Full Control. Click Apply, then click OK.
7. From the main menu, select Registry, then Exit.

Contacting technical support

For assistance installing, operating, maintaining, and troubleshooting this product, refer to this document and any other documentation provided. If you still have questions, you may contact presales and technical support.

Note: Be ready at the equipment before calling for technical support.

You can reach technical support by phone 8 a.m. to 7 p.m. EST, Monday through Friday.

North America

T 888 437 3287

F 561 998 6224

Asia

T 65 639 19314

F 65 639 19306

Australia

T 61 3 9239 1200

F 61 3 9239 1299

Canada

T 800 267 6317

F 613 737 5517

EMEA

T 48 58 326 22 40

F 48 58 326 22 41

Latin America

T 503 691 7294

F 561 994 6572

Email: rs-bctsupport@fs.utc.com

Web site: www.utcfireandsecurity.com

Appendix A

UL certification requirements

Summary

This appendix provides a list of installation requirements necessary for a UL Listed Facility Commander Wnx system.

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UL specifications and requirements

Facility Commander Wnx is a UL Listed system (UL 1076 Proprietary Burglary Requirements/UL 294 Access Control Requirements). You must adhere to the following requirements in a UL Listed installation:

1. The computer and monitor shall be completely duplicated. Provision for switchover within 6 minutes is required (30 seconds for manual transfer of cables and 5 minutes 30 seconds for the system boot sequence).
2. Compatibility has been verified with the following protected premise-control units:
 - ACU2X, ACU2XL8, ACU2XL16, ACURS02, ACURS04, ACUX16, ACUXLplus
 - M5, M3000, and Micro/2000 using a PXN or PXNplus CPU board
 - DirecDoor
3. The system shall be connected to a listed surge suppressor with a maximum marked rating of 330 volts.

4. The installation instructions shall specify signal line transient protection complying with the Standard for Protectors for Data Communications and Fire Alarm Circuits, UL 479B, with a maximum marked rating of 50 volts.
5. The equipment shall be installed in a temperature-controlled environment. Twenty-four hours of backup power shall be provided to the HVAC system. The HVAC system shall be capable of maintaining a temperature between 55° and 95° F.
6. The installation instructions shall specify that, in addition to the main power supply and secondary power supply that are required to be provided at the central supervisory station, the system shall be provided with an uninterruptable power supply (UPS) with sufficient capacity to operate the computer equipment for a minimum of 15 minutes. If more than 15 minutes is required for the secondary power supply to supply the UPS input power, the UPS shall be capable of providing input power for at least that amount of time. The UPS shall comply with the Standard for Uninterruptable Power Supply Equipment, UL 1778, or the Standard for Fire Protective Signaling Devices, UL 1481.
7. A UL Listed printer shall be provided.
8. Signal prioritization shall be set up as follows (from highest to lowest): Alarm, Trouble, Supplementary (such as access control).
9. Polling of a receiving unit must not exceed 200 seconds.
10. Exit and Entry delay must not exceed 60 seconds.
11. Communication between Host and Protected Premise Units must consist of an independent, dedicated, and direct Ethernet line. Communication over LAN and WAN has not been investigated by UL.
12. Elevator Control, DVR, CCTV, Camera functions, and Keypad Alarm Response have not been evaluated by UL.
13. Any communication failure shall be treated as a compromise of the Encrypted Line Security of the proprietary burglar alarm system when installed with NIST validated, Triple DES C module, Version 1.1.
14. The minimum system configuration for the Facility Commander Wnx monitoring equipment consists of a Listed Pentium computer with a minimum CPU speed of 2 GHz, 2 GB RAM, 10 GB HDD, and 10/100 NIC. A color monitor shall also be provided (1024 x 768 resolution, 16-bit color display).

Appendix B

Optional hardware and software

Summary

This appendix details procedures to follow when installing optional hardware and software to your FCWnx system.

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 - Following installation of the Digi board 192
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- Setting up the Fargo DTC550 printer/encoder for smartcard encoding with FCWnx 193

Installing FCWnx on a thin client terminal server

Note: Your FCWnx software license limits the number of Thin Client installations allowed. Refer to the licensing chapter of your FCWnx Installation Manual.

Install Thin Client software on the appropriate computers by following the appropriate installation and configuration instructions for your brand of hardware. Windows documentation provides additional details of virtual workstation technology and Thin Client services installation and access. If you have additional questions, consult your IS Department for assistance.

To install FCWnx on a Thin Client Terminal server computer:

1. Insert the FCWnx installation disc into your CD/DVD drive. A Terminal Server Install Failure message is displayed.
2. Click OK. The dialog box closes.
3. If not already displayed, browse to the FCWnx CD content. This is typically D:\
4. Double-click Terminal.exe to begin the FCWnx software installation.
5. Continue with “Selecting Installation Type” of your FCWnx Installation Guide and proceed with complete FCWnx installation instructions.

Note: Return to this point when the entire installation process is complete.

Following installation of FCWnx on a computer with Thin Client services enabled, a manual restart is required to complete the process. Restart your computer at this time and then proceed to log on.

Following installation of FCWnx

To finalize the FCWnx installation:

1. Log on to the FCWnx application. Select the File menu and then Login. For additional details, review Chapter 7 “Logging on and configuring Facility Commander Wnx” on page 149. There are additional system parameters you need to address.
2. Enter your login ID and password.

Note: Default login ID is secure and the password is SecurityMaster08. The language is English.

If logging into FCWnx using a client, you *must* have a valid operating system (Windows XP Professional or Vista), user name, and password, along with a valid FCWnx login ID and password on the server computer. Those login IDs must be part of the SPAdmin local group on the FCWnx server computer.

3. Click OK.
4. Select the Administration menu, Client option to open the Client form. The Client form opens with the Client tab displayed.
5. In the Thin Client Status combination group, select Enabled. Thin Client Terminal server installation of FCWnx is now complete.
6. Thin Client software must be installed on all computers that are going to connect to the Thin Client server and access FCWnx.

7. Your FCWnx software license limits the number of Thin Client installations allowed.

Setting up a Digi serial-port expander

Note: If you purchased this system from UTC Fire & Security, the Digi board is already set up for you.

The Digi serial-port expander is a UTC Fire & Security approved serial-port expander. The purpose of the Digi serial-port expander is to provide additional COM ports, which are required for wiring direct-connect micros and communicating with dial-up micros using modems.

Note: If you plan on using CCTV devices to interface with FCWnx, you need additional serial ports; therefore, you need a Digi serial-port expander. However, integrated digital video recorders and equipment use an Ethernet interface.

To install or change the configuration of the Digi serial-port expander:

1. Shut down the computer and turn the power off. Remove the power cord from the back of the computer. (Stand-by power causes the system to automatically start up on insertion of a new card of any type into the PCI bus.)
2. Open the computer and install the Digi board into any free PCI slot of the motherboard. Secure the card to the computer chassis.
3. Close the computer case and connect the Digi box to the cable from the Digi board that you just installed.
4. Turn the power on and wait for the computer to restart. If the computer does not restart, manually restart the system at this time. During the boot sequence, Windows detects the Digi serial-port expander and prompts you for the Windows installation disc.

Note: If this is a client computer, during the boot sequence, Windows detects the Digi serial-port expander and prompts you for the Windows installation disc.

5. Insert the Windows installation disc. A screen displays, prompting you for the type of module you have attached to the board.
6. Select 16em if you are using the 16-port expander box (16em is the default setting) or 8em if you are using the 8-port expander box.
7. Click Add then Next. You are asked what port number you want to install first, beginning with the first available COM port (usually, COM 4 if an internal modem is installed).

Note: We recommend starting with COM 5, ending with COM 20 on a 16em board and COM 12 on an 8em board.

8. Click Finish. The Ports Configuration window opens.
9. Click Next, then Finish. The installation is complete. Shut down and restart the your computer system.

Following installation of the Digi board

1. Check if the COM ports are installed by clicking Start, Programs, Administrative Tools, then Computer Management.
2. In the Computer Management window, select Device Manager and expand the Ports (COM & LPT) available to your computer. Verify the list of COM ports and numbers that you installed.

Setting up dial-up modems

Note: If you purchased this system from UTC Fire & Security, the modem is already set up for you.

A dedicated support modem for use by UTC Fire & Security business and support is highly recommended. Micro modems are used to communicate with dial-up micros. For Micro/5 and PX-2000 modems, we recommend that you lock the baud rate at 9600.

Before a modem can be used with FCWnx, it must be set up in the operating system. Refer to your modem documentation and Windows documentation for more information.

If this modem is to be used to communicate with micros, you must manually lock the speed of the modem at 9600 baud.

To lock the speed of the modem at 9600 baud:

1. Click Start and then Control Panel.
2. From the Control Panel, select Phone and Modem Options.
3. On the Modems tab, select the modem you are using for your micros; click the Properties button.
4. In the Maximum port speed field, select 9600.

Note: Not all modems use the exact commands listed in the previous step. If your modem does not use that command, use the definitions below to select the equivalent command.

&Q0: Selects direct asynchronous operation and turns off error correction, data compression, and automatic speed buffering (ASB).

S37: Selects the speed that your modem uses to attempt a connection with the remote modem. This is the data transmission speed across the telephone line from modem to modem. If the remote modem does not support the speed specified by S37, your modem attempts to connect at the next lower speed. This continues until a connection is made, the options are exhausted, or the remote modem times out.

=9: 9600 bits/second

If you have problems at 9600, you can try a lower baud rate:

=8: 4800 bits/second

=7: 2400 bits/second

1. Click OK.
2. Click OK again.
3. Click Close.

Setting up the Fargo DTC550 printer/encoder for smartcard encoding with FCWnx

To use the Fargo DTC550 printer/encoder with FCWnx, you must download and install the printer driver. If you are using a Fargo printer with internal OMNIKEY 5121 or 5125 encoder, you must download and install both the driver and API.

Notes

Make sure that the operating system is installed on an NTFS partition.

Do not have a Magstripe encoder specified under Printer Setup. Make sure it is set to None.

Do not have an external encoder configured when trying to use the internal encoder of the printer.

To download and install the DCT 550 driver:

1. Log on to your computer as the local administrator.
2. Before connecting the printer USB cables to the computer, download the DTC 550 driver from the following site.

<http://www.fargosupport.com>

3. Run the printer driver installation. Connect the USB cable and power on the printer when prompted during the installation.

Note: When using a Fargo printer with an internal OMNIKEY 5121 or 5125 encoder, you must download and install both the driver and API.

To download and install the internal OMNIKEY 5121 or 5125 encoder driver:

1. Go to the following site.

<http://www.hidglobal.com/driverDownloads.php>

Select OMNIKEY from the drop down list.

Under the Products drop down list, select OMNIKEY 5125 Reader Board USB Prox.

Under Operating System, select the appropriate O/S.

2. Download the following files:

CardMan_Synchronous_API_V1_1_1_4.exe

- Title: OMNIKEY Synchronous API for Windows
- Size: 3232576
- Description: OMNIKEY synchronous API (V1.1.1.4 – Release: 10/10/07 – 3927kB)

OMNIKEY5x21_V1_2_2_7.exe

- Title - OMNIKEY 5x2x Driver Self-Extractor (for manual installation)
- Size – 229838
- Description - PC/SC Driver for OMNIKEY 5121, 5321, 5125, 5325, 6321 (V1.2.2.7 - Release: 2010/01/20 - 225 kB - Windows 2000 / XP / 2k3 Server / Vista / 2k8 Server / Windows 7 - digitally signed for Win 2000, XP, Vista, 2k3 Server, 2k8 Server & Windows 7)

3. Install the OMNIKEY5x21_V1_2_2_7.exe (V1.2.2.7).
4. Run the CardMan_Synchronous_API_V1_1_1_4.exe.

This will extract the installer to

C:\OMNIKEY\CardMan_Synchronous_API_V1_1_1_4.

Browse to this folder, and then run the setup.exe. You can verify this is installed by opening Add/Remove programs.

Appendix C

CCTV interfaces

Summary

This appendix provides information for installation and configuration of CCTV interfaces.

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Overview

The CCTV interface system operates separately from FCWnx and requires its own hardware and software. This document details the process of installing CCTV interfaces, including setup and configuration. It also contains information for the operating system once the interface is installed.

Integrated digital video surveillance configuration and management are detailed in the FCWnx User Guide.

Software requirements

For the CCTV system, you must have one of the following:

- For the American Dynamics system: None
- For the Burle Allegiant system: Allegiant LTC 8359/00 Master control software
- For the Kalatel system: None
- For the Pelco system: None

For the FCWnx system:

- FCWnx CCTV interface program
- FCWnx software

American Dynamics system

The FCWnx - American Dynamics interface supports the American Dynamics controller.

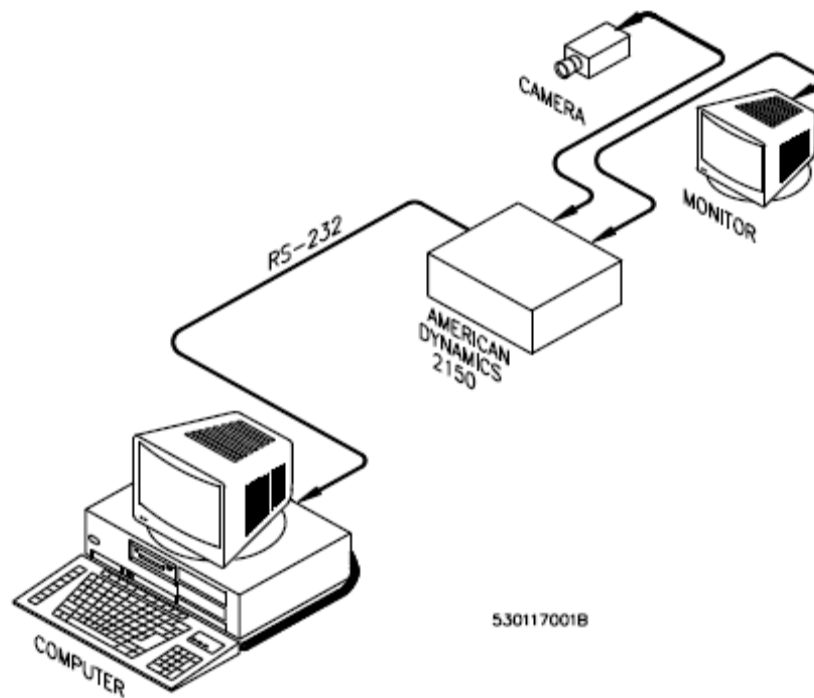
The FCWnx - American Dynamics interface provides the capability to automatically control American Dynamics CCTV cameras and to monitor remotely when FCWnx alarms change state. To be able to monitor the alarms, the desired FCWnx alarms must be linked or “mapped” to the appropriate CCTV cameras set up in American Dynamics. When FCWnx receives the mapped alarm, FCWnx sends a message to the American Dynamics system to turn on the linked CCTV cameras and monitors. The American Dynamics system then controls the appropriate cameras and monitors. No operator intervention is required. As an alarm is cleared by the operator from the FCWnx Alarm Monitor form, or when the FCWnx alarm resets, the American Dynamics system is informed that the alarm is now reset and responded to and the appropriate camera turns off.

Setup overview

To perform a successful configuration, follow these steps:

1. Set up the FCWnx system and the American Dynamics system or verify the setup if this is an existing system. Figure 94 on page 198 provides a basic example of the hardware setup. See “Software requirements” on page 196 and “Hardware requirements” on page 198 for more information.
2. Install the FCWnx - American Dynamics software on the desired FCWnx computer. See “Installation: American Dynamics” on page 199.
3. Add CCTV alarms and then link or “map” the desired FCWnx alarms to the appropriate CCTV cameras set up in American Dynamics. See “Configuring alarms” on page 200 and “Monitoring” on page 221.
4. Once the FCWnx and American Dynamics systems are set up and configured, operation of the CCTV control feature is a hands-free procedure.

Figure 94: Overview of the FCWnx and American Dynamics interface



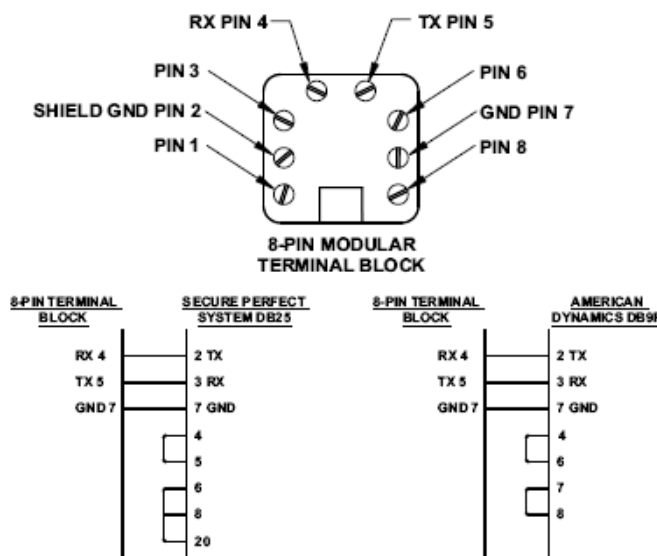
Hardware requirements

For the American Dynamics system

For the American Dynamics system:

- AD 2150 controller provided by American Dynamics
- CCTV cameras and monitors
- Cable to connect the FCWnx system and the American Dynamics switches.

Figure 95: Cable pinouts: terminal block to DB25F and terminal block to DB9F



For the FCWnx system

- FCWnx computer

Refer to “Installation: American Dynamics” below.

Installation: American Dynamics

This interface program has a separate install utility in the FCWnx directory of the client computer or in the Client directory of the server computer.

The FCWnx - American Dynamics program can be installed at the same time the FCWnx system is installed or any time thereafter.

Note: Refer to your American Dynamics manual for DIP switch settings. They should be set to the default settings.

To install FCWnx - American Dynamics:

1. You *must* be logged in to the FCWnx computer with administrator privileges. If not, log out and log back in.

Note: The client on which you are installing FCWnx must be able to communicate on the network with the License Domain Controller.

2. Click Start, then Run.
3. From the Run window, click Browse.

4. In the 'Look in' field, select the hard drive on which FCWnx is loaded, such as (C:). Then, navigate to the directory in which FCWnx is installed. The default is Program Files\GE\FCWnx.
5. Select the CCTVInstall.exe.
6. Click Open.
7. In the Run window, click OK.
8. Provide the appropriate answers to prompts and click Next to continue.

During installation, you are prompted with a few questions.

- Type of CCTV Interface: Select American Dynamics.
- Description or name for the interface: Enter a description for this interface, such as Main Building CCTV.

Note: If multiple same-type CCTV interfaces are installed on a single FCWnx network, the description of each interface *must* be unique.

- COM port to which this interface is connected: Select the COM port.
9. Click Install to complete the installation.
 10. Once the installation is complete, from the Control Panel, select System, Hardware tab, Device Manager, Ports. Select the COM port you previously selected in the installation and provide identical settings for baud rate, data bits, parity, stop bits, and flow control as your CCTV Controller's setup.
 11. When you are ready to launch the CCTV program, you need to restart the FCWnx services on this client.
 12. Once the system is running, log on to the computer as an FCWnx user and start the FCWnx application. Log on to FCWnx and from the Application Group pane, Monitors & Controls group, select Client Monitor. You notice an entry for the CCTV you just installed.
 13. To start the CCTV application, you need to create CCTV alarms in the CCTV Alarm form first. Then you need to map the desired FCWnx alarm to CCTV on the Alarm form CCTV tab. "Configuring alarms" below and "Monitoring" on page 221.
 14. To start your CCTV interface, click Launch Client on the toolbar while the CCTV interface is selected. This starts the program that communicates with your CCTV switcher.

Configuring alarms

The communication between the FCWnx system and the American Dynamics system is a one-way communication. FCWnx only sends data to the American

Dynamics switcher; it does not receive any messages from American Dynamics. If the American Dynamics switcher loses communications with the FCWnx system, there is not be a Loss of COMM alarm generated on the FCWnx system.

Only the loss of Client COMM alarm is installed in the American Dynamics interface. This alarm is generated from FCWnx when the FCWnx server is no longer able to communicate with the interface program.

Alarms from FCWnx

The FCWnx - American Dynamics interface allows FCWnx alarms to trigger CCTV cameras/monitors to turn on or off on the American Dynamics system. Before this can happen, FCWnx needs to be notified as to which FCWnx alarms are to be the triggers and which messages need to be sent to the American Dynamics system to trigger cameras/monitors.

To configure correctly, follow the steps below. Each step is explained in more detail in the sections that follow.

1. Add, change, or delete the desired CCTV alarms. “Adding, changing, or deleting CCTV alarms” below.
2. Map FCWnx alarms to CCTV alarms. See “Mapping FCWnx alarms to CCTV alarms” on page 221.

Adding, changing, or deleting CCTV alarms

CCTV alarms are the actual messages that are sent out to the American Dynamics interface. They control what sequence of monitors and cameras are switched on and off. The American Dynamics controller is preprogrammed to interpret these messages. (To program the American Dynamics controller, refer to the manual on the American Dynamics command console language.)

To add CCTV alarms within FCWnx:

1. From the FCWnx Application Group pane, select Gateways & Interfaces, then CCTV Interface.
2. Click Add.
3. In the Description field, enter the appropriate description for your system. Example: American Dynamics CCTV Alarm
4. In the CCTV Interface field, choose American Dynamics.
5. In the CCTV Alarm field, choose the alarm number of the interface you are monitoring.
6. The Enable Message and Disable Message fields are automatically filled. Use these default settings.

7. In the Reset CCTV Alarm field, two reset choices for the alarm are provided: when the alarm is cleared from the Alarm Monitor, or when the alarm Resets. This means the Reset or the disable message can be sent out when the FCWnx alarm:
 - Is cleared from the Alarm Monitor
 - Resets
8. Click Save.

To change CCTV alarms within FCWnx:

1. From the FCWnx Application Group pane, select Gateways & Interfaces, then CCTV Interface.
2. Click Search.
3. In the Search Result window, locate and then select the CCTV alarm you want to change. The alarm information now displays.
4. Make the desired changes.
5. Click Save.

To delete CCTV alarms within FCWnx:

1. From the FCWnx Application Group pane, select Gateways & Interfaces, then CCTV Interface.
2. Click Search.
3. In the Search Result window, locate and then select the CCTV alarm you want to delete.
4. Click Delete.
5. You are prompted to verify your decision to delete. Click Yes to delete or No to keep the record.

Burle Allegiant system

The FCWnx - Burle Allegiant interface supports the Burle Allegiant controllers TC8500 through TC8901.

A serial COM port is the only additional hardware requirement for FCWnx. It is used to communicate with the Burle Allegiant controller. A separate COM port can also be configured to report Video Loss detection, which is reported using the alarm monitor as a Video Loss alarm when one or more cameras lose its video signal. A separate video loss alarm is generated for each camera.

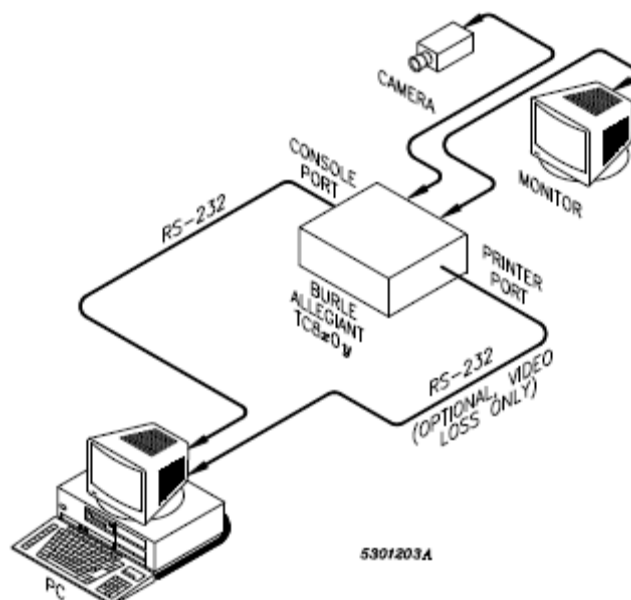
The FCWnx - Burle Allegiant interface provides the capability to automatically control Burle Allegiant CCTV cameras and to monitor remotely when FCWnx alarms change state. To be able to monitor the alarms, the desired FCWnx alarms must be linked or “mapped” to the appropriate CCTV cameras set up in Burle Allegiant. When FCWnx receives the mapped alarm, FCWnx sends a message to the Burle Allegiant system to turn on the linked CCTV cameras and monitors. The Burle Allegiant system then controls the appropriate cameras and monitors. No operator intervention is required. As an alarm is cleared by the operator from the FCWnx Alarm Monitor form, or when the FCWnx alarm resets, the Burle Allegiant system is informed that the alarm is now reset and responded to and the appropriate camera turns off.

Setup overview

To perform a successful configuration:

1. Set up the FCWnx system and the Burle Allegiant system or verify the setup if this is an existing system. Figure 96 on page 204 on the next page provides a basic example of the hardware setup. See “Software requirements” on page 196 and “Hardware requirements” on page 204 for more information.
2. Install the FCWnx - Burle Allegiant software on the FCWnx computer. “Installation: Burle Allegiant” on page 205.
3. Add CCTV alarms and then link or “map” the FCWnx alarms to the appropriate CCTV cameras set up in Burle Allegiant. See “Configuring alarms” on page 207 and “Monitoring” on page 221.
4. Once the FCWnx and Burle Allegiant systems are set up and configured, operation of the CCTV control feature is a hands-free procedure.

Figure 96: Overview of the FCWnx and Burle Allegiant interface



Hardware requirements

For the Burle Allegiant system

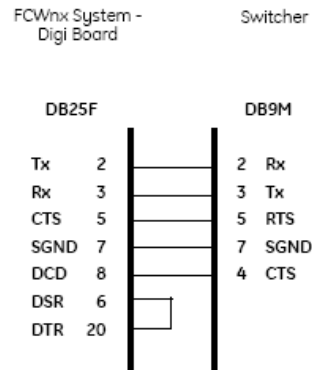
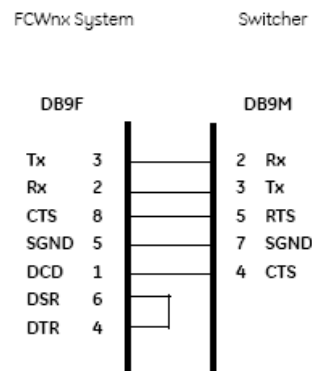
- Allegiant (Models TC8500 through TC8901) controller provided by Burle
- CCTV cameras and monitors

Note: Refer to your Allegiant manual for DIP switch settings. They should be set to the default value.

Refer to your Burle Allegiant documentation for setup specifics.

For the FCWnx system

- FCWnx computer (See “Installation: Burle Allegiant” on page 205, for installation instructions.)
- At least one serial port, or two if you plan on using the optional Video Loss monitoring. You may need to purchase and install a Digi board to provide additional COM ports to connect to the switchers.
- Cable to connect the FCWnx system to the Burle Allegiant switcher console port (See Figure 97 on page 205 and Figure 98 on page 205.)
- For the optional Video Loss monitoring, a second RS-232-C serial port

Figure 97: Cable pinouts: FCWnx system to switcher (DB25F to DB9M)**Figure 98: Cable pinouts: FCWnx system to switcher (DB9F to DB9M)**

Installation: Burle Allegiant

This interface program has a separate install utility in the FCWnx directory of the client computer or in the client directory of the server computer.

The FCWnx - Burle Allegiant program can be installed at the same time the FCWnx system is installed or any time thereafter.

Note: Refer to your Burle Allegiant manual for DIP switch settings. They should be set to the default settings.

To install FCWnx - Burle Allegiant:

1. You *must* be logged in to the FCWnx computer with administrator privileges. If not, log out and log back in.

Note: The client on which you are installing FCWnx must be able to communicate on the network with the FCWnx server computer.

2. Click Start, then Run.
3. From the Run window, click Browse.
4. In the 'Look in' field, select the hard drive on which FCWnx is loaded, such as (C:). Then, navigate to the directory in which FCWnx is installed. The default is Program Files\GE\FCWnx.
5. Select the CCTVInstall.exe.
6. Click Open.
7. In the Run window, click OK.
8. Provide the appropriate answers to prompts and click Next to continue.

During installation, you are prompted with a few questions.

- Type of CCTV Interface: Select Burle Allegiant.
- Description or name for the interface: Enter a description for this interface, such as Main Building CCTV.

Note: If multiple same-type CCTV interfaces are installed on a single FCWnx network, the description of each interface *must* be unique.

- COM port to which this interface is connected: Select the COM port.
 - COM port for video loss signal: OPTIONAL: Select a COM port to use as a second connection for the interface. Click Next.
9. Click Install to complete the installation. You need to stop and restart the FCWnx server for these changes to take effect.
 10. Once the installation is complete, from the Control Panel, select System, Hardware tab, Device Manager, and then Ports. Select the COM port you previously selected in the installation and provide identical settings for baud rate, data bits, parity, stop bits, and flow control as your CCTV Controller setup.
 11. When you are ready to launch the CCTV program, you need to restart the FCWnx services on this client.
 12. Once the system is running, log on to the computer as an FCWnx user and start the FCWnx application. Log on to FCWnx and from the Application Group pane, Monitors and Controls group, select Client Monitor. You notice an entry for the CCTV you just installed.
 13. To start the CCTV application, you need to create CCTV alarms in the CCTV Alarm form first. Then you need to map the desired FCWnx alarm to CCTV on the Alarm form CCTV tab. "Configuring alarms" on page 207 and "Monitoring" on page 221.

14. To start your CCTV interface, click Launch Client on the toolbar while the CCTV interface is selected. This starts the program that communicates with your CCTV switcher.

Configuring alarms

The communication between the FCWnx system and the Burle Allegiant system is bidirectional, meaning that alarms are sent from FCWnx to the Burle Allegiant system and alarms are also sent from the Burle Allegiant system to the FCWnx system.

Alarms from the Burle Allegiant system

Two alarms can be generated from the Burle Allegiant CCTV system:

- Loss of COMM Alarm
- Video Loss Alarm

Loss of COMM Alarm

This alarm signifies that the interface program is no longer able to communicate with the Allegiant controller.

Video Loss Alarm

This alarm is reported only if you selected the optional video loss port during the installation of the FCWnx - Burle Allegiant software. A separate alarm is generated for each camera that is configured on the Burle system.

The first alarm is set up for you. However, the Video Loss alarm requires that a special command be executed on the Burle Allegiant system to report this alarm. Refer to the Burle Allegiant documentation for more information.

Alarms from FCWnx

The FCWnx - Burle Allegiant interface allows FCWnx alarms to trigger CCTV cameras/monitors to turn on or off on the Burle Allegiant system. Before this can happen, FCWnx needs to be notified as to which FCWnx alarms are to be the triggers and which messages need to be sent to the Allegiant system to trigger cameras/monitors.

To configure correctly, follow the steps below. Each step is explained in more detail in the sections that follow.

1. Add, change, or delete the desired CCTV alarms. “Adding, changing, or deleting CCTV alarms” on page 208.
2. Map FCWnx alarms to CCTV alarms. See “Mapping FCWnx alarms to CCTV alarms” on page 221.

Adding, changing, or deleting CCTV alarms

CCTV alarms are the actual messages that are sent to the Allegiant interface. They control the sequence of monitors and cameras are switched on and off. The Allegiant controller is preprogrammed to interpret these messages. (To program the Burle Allegiant controller, refer to the manual on the Burle Allegiant command console language.)

To add CCTV alarms within FCWnx:

1. From the FCWnx Application Group pane, select Gateways & Interfaces, then CCTV Interface.
2. Click Add.
3. In the Description field, enter the appropriate description for your system.
Example: Burle Allegiant CCTV Alarm
4. In the CCTV Interface field, choose Burle Allegiant.
5. In the CCTV Alarm field, choose the alarm number of the interface you are monitoring.
6. The Enable Message and Disable Message fields are automatically filled. Use these default settings.
7. In the Reset CCTV Alarm field, two reset choices for the alarm are provided: When the alarm is cleared from the Alarm Monitor, or When the alarm Resets.

This means the reset or the disable message can be sent when the FCWnx alarm:

- Is cleared from the Alarm Monitor
- Resets

8. Click Save.

To change CCTV alarms within FCWnx:

1. From the FCWnx Application Group pane, select Gateways & Interfaces, then CCTV Interface.
2. Click Search.
3. In the Search Result window, locate the CCTV alarm you want to change, then select it. The alarm information now displays.
4. Make the desired changes.
5. Click Save.

To delete CCTV alarms within FCWnx:

1. From the FCWnx Application Group pane, select Gateways & Interfaces, then CCTV Interface.
2. Click Search.
3. In the Search Result window, locate the CCTV alarm you want to delete then select it.
4. Click Delete.
5. You are prompted to verify your decision to delete. Click Yes to delete or No to keep the record.

Kalatel system

The FCWnx - Kalatel interface supports the Kalatel controller KTD-348.

The FCWnx - Kalatel interface provides the capability to automatically control Kalatel CCTV cameras and to monitor remotely when FCWnx alarms change state. To be able to monitor the alarms, the desired FCWnx alarms must be linked or “mapped” to the appropriate CCTV cameras set up in Kalatel. When FCWnx receives the mapped alarm, FCWnx sends a message to the Kalatel system to turn on the linked CCTV cameras and monitors. The Kalatel system then controls the appropriate cameras and monitors. No operator intervention is required. As an alarm is cleared by the operator from the Alarm Monitor form, or when the FCWnx alarm resets, the Kalatel system is informed that the alarm is now reset and responded to and the appropriate camera turns off.

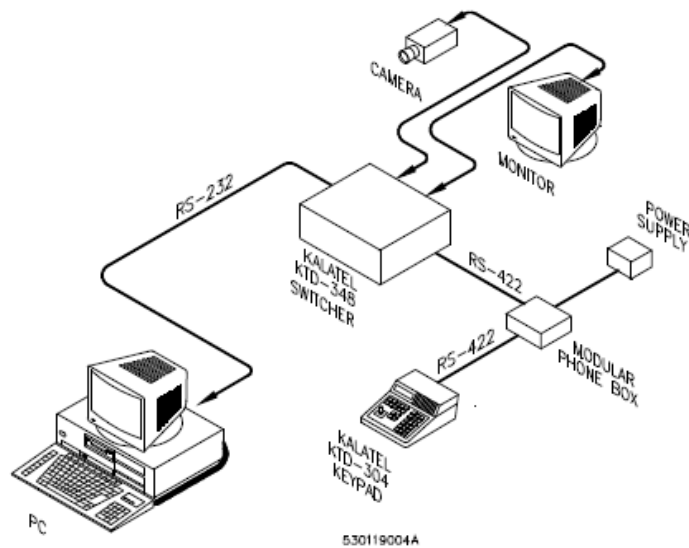
Setup overview

To perform a successful configuration, follow these steps:

1. Set up the FCWnx system and the Kalatel system or verify the setup if this is an existing system. Figure 99 on page 210 provides a basic example of the hardware setup. See “Software requirements” on page 196 and “Hardware requirements” on page 210 and for more information.
2. Install the FCWnx - Kalatel software on the desired FCWnx computer. See “Installation: Kalatel” on page 212.
3. Add CCTV alarms and then link or “map” the desired FCWnx alarms to the appropriate CCTV cameras set up in Kalatel. “Configuring alarms” on page 213 and “Monitoring” on page 221.

4. Once the FCWnx and Kalatel systems are set up and configured, operation of the CCTV control feature is a hands-free procedure.

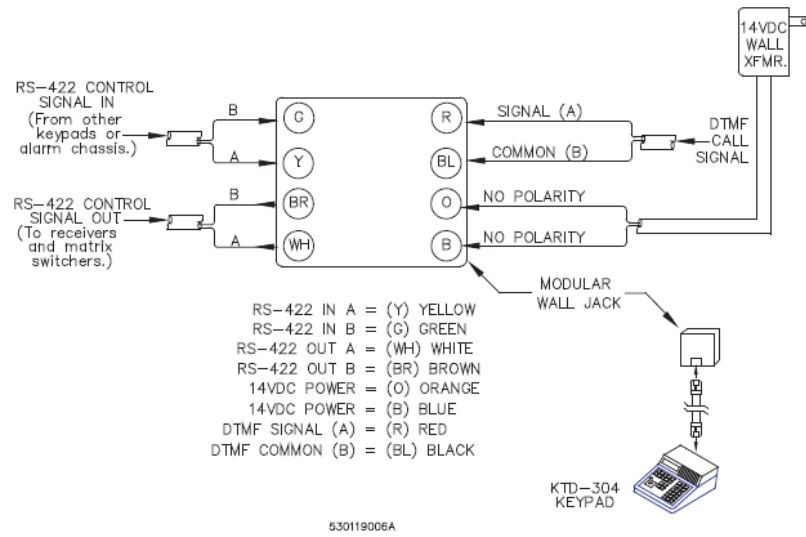
Figure 99: Overview of the FCWnx and Kalatel interface



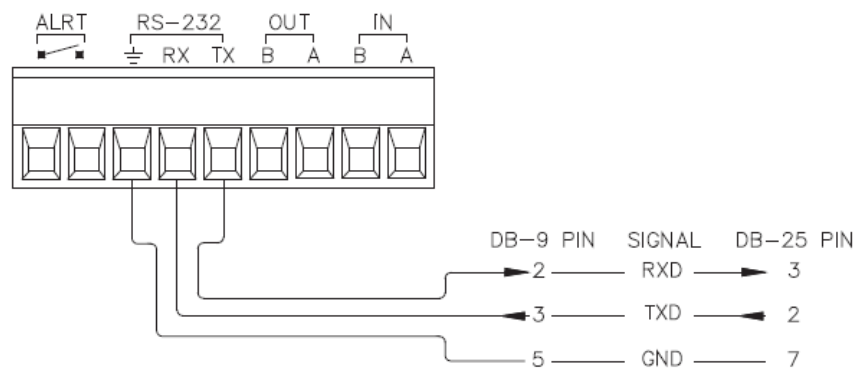
Hardware requirements

For the Kalatel system

- Cable to connect the KTD-304 keypad to the KTD-348 switcher. (Refer to Figure 100 on page 211 for cable pinout information.)
- CCTV cameras and monitors
- KTD-348 controller provided by Kalatel
- KTD-304 keypad provided by Kalatel

Figure 100: Cable pinouts: KTD-304 to KTD-348For the FCWnx System

- FCWnx computer
Refer to “Installation: Kalatel” on page 212.
- Cable to connect the FCWnx system from Kalatel KTD-348.

Figure 101: Cable pinouts: FCWnx to Kalatel KTD-348

Installation: Kalatel

This interface program has a separate install utility in the FCWnx directory of the client computer or in the Client directory of the server computer.

The FCWnx - Kalatel program can be installed at the same time the FCWnx system is installed or any time thereafter.

Note: Refer to your Kalatel manual for DIP switch settings. They should be set to the default settings.

To install FCWnx - Kalatel:

1. You *must* be logged in to the FCWnx computer with administrator privileges. If not, log out and log back in.

Note: The client on which you are installing FCWnx must be able to communicate on the network with the License Domain Controller.

2. Click Start, then Run.
3. From the Run window, click Browse.
4. In the 'Look in' field, select the hard drive on which FCWnx is loaded, such as (C:). Then, navigate to the directory FCWnx is installed. The default is Program Files\GE\FCWnx.
5. Select the CCTVInstall.exe.
6. Click Open.
7. In the Run window, click OK.
8. Provide the appropriate answers to prompts and click Next to continue.

During installation, you are prompted with a few questions.

- Type of CCTV Interface: Select Kalatel.
- Description or name for the interface: Enter a description for this interface, such as Main Building CCTV.

Note: If multiple same-type CCTV interfaces are installed on a single FCWnx network, the description of each interface *must* be unique.

- COM port to which this interface is connected: Select the COM port.
9. Click Install to complete the installation.
 10. Once the installation is complete, from the Control Panel, select System, Hardware tab, Device Manager, Ports. Select the COM port you previously selected in the installation and provide identical settings for baud rate, data bits, parity, stop bits, and flow control as your CCTV Controller's setup.

11. When you are ready to launch the CCTV program, you need to restart the FCWnx services on this client.
12. Once the system is running, log on to the computer as an FCWnx user and start the FCWnx application. Log on to FCWnx and from the Application Group pane, Monitors and Controls group, select Client Monitor. You notice an entry for the CCTV you just installed. (For FCWnx 2.1 and EE 1.1, from the Administration menu, select Client Management.)
13. To start the CCTV application, you need to create CCTV alarms in the CCTV Alarm form first. Then you need to map the desired FCWnx alarm to CCTV on the Alarm form CCTV tab. “Configuring alarms” below and “Monitoring” on page 221.
14. To start your CCTV interface, click Launch Client on the toolbar while the CCTV interface is selected. This starts the program that communicates with your CCTV switcher.

Configuring alarms

The communication between the FCWnx system and the Kalatel system is a one-way communication. FCWnx only sends data to the Kalatel switcher; it does not receive any messages from Kalatel. If the Kalatel switcher loses communications with the FCWnx system, there is not be a Loss of COMM alarm generated on the FCWnx system.

Only the loss of Client COMM alarm is installed in the Kalatel interface. This alarm is generated from FCWnx when the FCWnx server is no longer able to communicate with the interface program.

Alarms from FCWnx

The FCWnx - Kalatel interface allows FCWnx alarms to trigger CCTV cameras/monitors to turn on or off on the Kalatel system. Before this can happen, FCWnx needs to be notified as to which FCWnx alarms are to be the triggers and which messages need to be sent to the Kalatel system to trigger cameras/monitors.

To configure correctly, follow the steps below. Each step is explained in more detail in the sections that follow.

1. Add, change, or delete the desired CCTV alarms. “Adding, changing, or deleting CCTV alarms” on page 214.
2. Map FCWnx alarms to CCTV alarms. See “Mapping FCWnx alarms to CCTV alarms” on page 221.

Adding, changing, or deleting CCTV alarms

CCTV alarms are the actual messages that are sent out to the Kalatel interface. They control what sequence of monitors and cameras are switched on and off. The Kalatel controller is preprogrammed to interpret these messages. (To program the Kalatel controller, refer to the manual on the Kalatel command console language.)

To add CCTV alarms within FCWnx:

1. From the FCWnx Application Group pane, select Gateways & Interfaces, then CCTV Interface.
2. Click Add.
3. In the Description field, enter the appropriate description for your system.
Example: Kalatel CCTV Alarm
4. In the CCTV Interface field, choose Kalatel.
5. In the CCTV Alarm field, choose the alarm number of the interface you are monitoring.
6. The Enable Message and Disable Message fields are automatically filled. Use these default settings.
7. In the Reset CCTV Alarm field, two reset choices for the alarm are provided: when the alarm is cleared from the Alarm Monitor, or when the alarm Resets.

This means the Reset or the disable message can be sent out when the FCWnx alarm:
 - Is cleared from the Alarm Monitor
 - Resets
8. Click Save.

To change CCTV alarms within FCWnx:

1. From the FCWnx Application Group pane, select Gateways & Interfaces, then CCTV Interface.
2. Click Search.
3. In the Search Result window, locate and then select the CCTV alarm you want to change. The alarm information now displays.
4. Make the required changes.
5. Click Save.

To delete CCTV alarms within FCWnx:

1. From the FCWnx Application Group pane, select Gateways & Interfaces, then CCTV Interface.
2. Click Search.
3. In the Search Result window, locate and then select the CCTV alarm you want to delete.
4. Click Delete.
5. You are prompted to verify your decision to delete. Click Yes to delete or No to keep the record.

Pelco system

The FCWnx - Pelco interface supports the Pelco controller CM9760.

The FCWnx - Pelco interface provides the capability to automatically control Pelco CCTV cameras and to monitor remotely when FCWnx alarms change state. To be able to monitor the alarms, the desired FCWnx alarms must be linked or “mapped” to the appropriate CCTV cameras set up in Pelco. When FCWnx received the mapped alarm, FCWnx sends a message to the Pelco system to turn on the linked CCTV cameras and monitors. The Pelco system then controls the appropriate cameras and monitors. No operator intervention is required. As an alarm is cleared by the operator from the Alarm Monitor form, or when the FCWnx alarm resets, the Pelco system is informed that the alarm is now reset and responded to and the appropriate camera turns off.

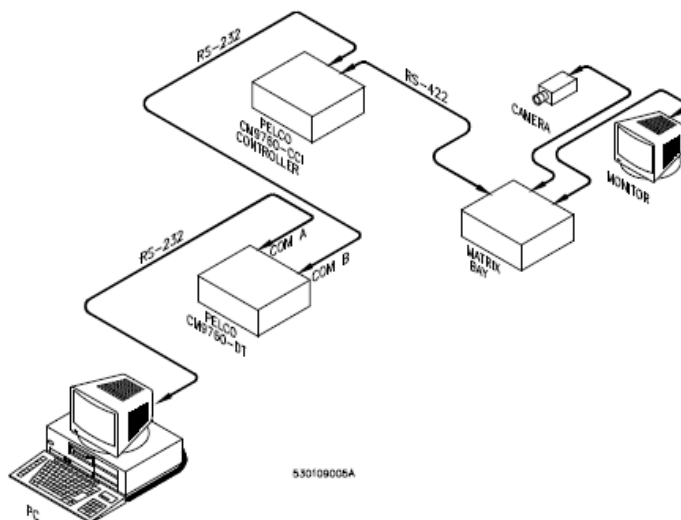
Setup overview

To perform a successful configuration, follow these steps.

1. Set up the FCWnx system and the Pelco system or verify the setup if this is an existing system. Figure 102 on page 216 provides a basic example of the hardware setup. See “Software requirements” on page 196 and “Hardware requirements” on page 216 for more information.
2. Install the FCWnx - Pelco software on the desired FCWnx computer. See “Installation: Pelco” on page 217.
3. Add CCTV alarms and then link or “map” the desired FCWnx alarms to the appropriate CCTV cameras set up in Pelco. “Configuring alarms” on page 219 and “Monitoring” on page 221.

- Once the FCWnx and Pelco systems are set up and configured, operation of the CCTV control feature is a hands-free procedure.

Figure 102: Overview of the FCWnx and Pelco interface

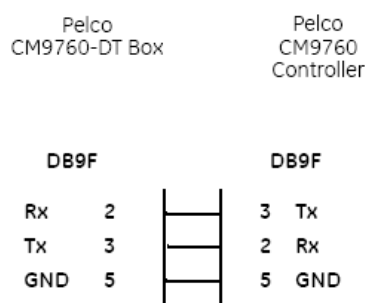


Hardware requirements

For the Pelco system

- Cable to connect the CM9760-DT box and the controller (Refer to Figure 103 below for cable pinout information.)
- CCTV cameras and monitors
- CM9760 controller provided by Pelco
- CM9760-DT box provided by Pelco
- Pelco CCTV equipment

Figure 103: Cable pinouts: CM9760-DT box to controller (DB9F to DB9F)



For the FCWnx system

- FCWnx computer
- Refer to “Installation: Pelco” below.
- Cable to connect the FCWnx system and the Pelco CM9760-DT box.

Figure 104: Cable pinouts: FCWnx to Pelco CM9760-DT to DB9F

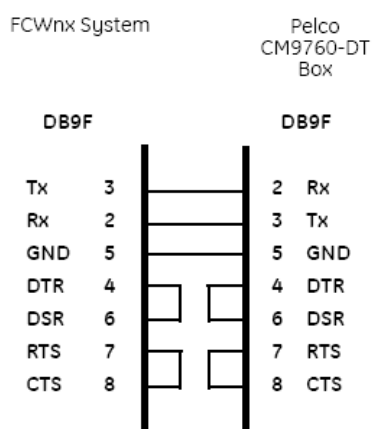
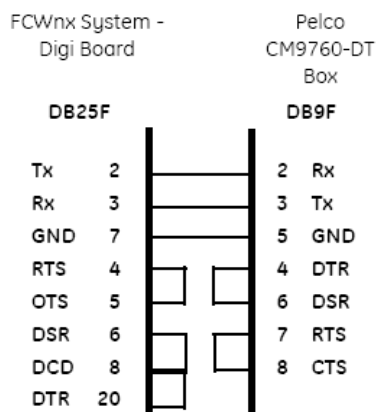


Figure 105: Cable pinouts: FCWnx system to Pelco CM9760-DT (DB25F to DB9F)



Installation: Pelco

This interface program has a separate install utility in the FCWnx directory of the client computer or in the Client directory of the server computer.

The FCWnx - Pelco program can be installed at the same time the FCWnx system is installed or any time thereafter.

Note: Refer to your Pelco manual for DIP switch settings. They should be set to the default settings.

To install FCWnx - Pelco:

1. You *must* be logged in to the FCWnx computer with administrator privileges. If not, log out and log on again.

Note: The client on which you are installing FCWnx must be able to communicate on the network with the License Domain Controller.

2. Click Start, then Run.
3. From the Run window, click Browse.
4. In the 'Look in' field, either select the hard drive on which FCWnx is loaded, such as (C:). Then, navigate to the directory where FCWnx is installed. The default is Program Files\GE\FCWnx.
5. Select the CCTVInstall.exe.
6. Click Open.
7. In the Run window, click OK.
8. Provide the appropriate answers to prompts and click Next to continue.

During installation, you are prompted with a few questions.

- Type of CCTV Interface: Select Pelco.
- Description or name for the interface: Enter a description for this interface, such as Main Building CCTV.

Note: If multiple same-type CCTV interfaces are installed on a single FCWnx network, the description of each interface *must* be unique.

- COM port to which this interface is connected: Select the COM port.
9. Click Install to complete the installation.
 10. Once the installation is complete, from the Control Panel, select System, Hardware tab, Device Manager, and then Ports. Select the COM port you previously selected in the installation and provide identical settings for baud rate, data bits, parity, stop bits, and flow control as your CCTV Controller's setup.
 11. When you are ready to launch the CCTV program, you need to restart the FCWnx services on this client.
 12. Once the system is running, log on to the computer as an FCWnx user and start the FCWnx application. Log on to FCWnx and from the Application Group pane, Monitors and Controls group, select Client Monitor. You notice an entry for the CCTV you just installed.

13. To start the CCTV application, you need to create CCTV alarms in the CCTV Alarm form first. Then you need to map the desired FCWnx alarm to CCTV on the Alarm form CCTV tab. “Configuring alarms” below and “Monitoring” on page 221.
14. To start your CCTV interface, click Launch Client on the toolbar while the CCTV interface is selected. This starts the program that communicates with your CCTV switcher.

Configuring alarms

The communication between the FCWnx system and the Pelco system is bidirectional, meaning that alarms are sent from FCWnx to the Pelco system and alarms are also sent from the Pelco system to the FCWnx system.

Alarms from the Pelco system

There is one alarm that can be generated from the Pelco CCTV system: Loss of COMM Alarm.

This alarm signifies that the interface program is no longer able to communicate with the Pelco controller.

Alarms from FCWnx

The FCWnx - Pelco interface allows FCWnx alarms to trigger CCTV cameras/monitors to turn on or off on the Pelco system. Before this can happen, FCWnx needs to be notified as to which FCWnx alarms are to be the triggers and which messages need to be sent to the Pelco system to trigger cameras/monitors.

To configure correctly, follow the steps below. Each step is explained in more detail in the sections that follow.

1. Add, change, or delete the desired CCTV alarms. “Adding, changing, or deleting CCTV alarms” below.
2. Map FCWnx alarms to CCTV alarms. See “Mapping FCWnx alarms to CCTV alarms” on page 221.

Adding, changing, or deleting CCTV alarms

CCTV alarms are the actual messages that are sent out to the Pelco interface. They control what sequence of monitors and cameras are switched on and off. The Pelco controller is preprogrammed to interpret these messages. (To program

the Pelco controller, refer to the manual on the Pelco command console language.)

To add CCTV alarms within FCWnx:

1. From the FCWnx Application Group pane, select Gateways & Interfaces, then CCTV Interface.
2. Click Add.
3. In the Description field, enter the appropriate description for your system.
Example: Pelco CCTV Alarm
4. In the CCTV Interface field, choose Pelco.
5. In the CCTV Alarm field, choose the alarm number of the interface you are monitoring.
6. The Enable Message and Disable Message fields are automatically selected. Use these default settings.
7. In the Reset CCTV Alarm field, two reset choices for the alarm are provided: when the alarm is cleared from the Alarm Monitor, or when the alarm Resets.

This means the Reset or the disable message can be sent out when the FCWnx alarm:
 - Is cleared from the Alarm Monitor, or
 - Resets.
8. Click Save.

To change CCTV alarms within FCWnx:

1. From the FCWnx Application Group pane, select Gateways & Interfaces, then CCTV Interface.
2. Click Search.
3. In the Search Result window, locate the CCTV alarm you want to change then select it. The alarm information now displays.
4. Make the desired changes.
5. Click Save.

To delete CCTV alarms within FCWnx:

1. From the FCWnx Application Group pane, select Gateways & Interfaces, then CCTV Interface.
2. Click Search.

3. In the Search Result window, locate and then select the CCTV alarm you want to delete.
4. Click Delete.
5. You are prompted to verify your decision to delete. Click Yes to delete or No to keep the record.

Mapping FCWnx alarms to CCTV alarms

Before you begin, make sure that you have:

- Added CCTV alarms (see previous section)
- Configured the micros so that you have FCWnx alarms to map (refer to the Online help for assistance)

To map FCWnx alarms to CCTV alarms:

1. From the FCWnx Application Group pane, select Gateways & Interfaces, then CCTV Interface.
2. Click Search.
3. In the Search Result window, locate and then select the FCWnx alarm you want to map. The alarm information now displays.
4. Select the CCTV tab.
5. Click Add/Remove.
6. The CCTV alarms you added in the previous step display.
7. Select the desired CCTV alarm you would like to map to the FCWnx alarm.
8. Click to assign an alarm. If you would like to unassign one, select the desired CCTV alarm from the list on the right and click.
9. When you are done assigning alarms, click OK.
10. Click the Alarm tab. Verify that the Monitor field is enabled.
11. Click Save.

Monitoring

When you added CCTV alarms, the Reset CCTV Alarm field provided two reset choices for the alarm: when the alarm is cleared from the Alarm Monitor, or when the alarm Resets.

If you selected when the alarm is cleared from the Alarm Monitor, then you need to clear the FCWnx alarm from the Alarm Monitor before the RESET message is sent to the controller.

However, if you selected when the alarm Resets, you can observe the results on the Allegiant system as FCWnx alarms are SET and RESET (indicated by the red and green LED on the FCWnx Alarm Monitor).

All FCWnx alarms that trigger CCTV alarms must be monitored.

Diagnostics

A diagnostic object called CCTV reports all diagnostics for all CCTV interfaces on the client. For details of the diagnostic utility, refer to your FCWnx Online Help.

Removal of CCTV client interface

The FCWnx CCTV interface program is removed when you delete the client interface from any one of the FCWnx client computers.

Note: You must first remove all CCTV alarm mapping before you can delete the CCTV interface.

To remove the CCTV client interface:

1. From the Application Group pane, Administration group, select Client to open the Client form.
2. Click Search to display all records.
3. Select the CCTV client.
4. Click Delete on the FCWnx toolbar.